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(71) Applicant (for all designated States except US): PRICE-LINE.COM INCORPORATED [US/US]; 800 Connecticut Avenue, Norwalk, CT 06854 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): WALKER, Jay, S. [US/US]; 124 Spectacle Lane, Ridgefield, CT 06877 (US).

URBAHN, Maximillian, O. [US/US]; 279 Rosebrook Road, New Canaan, CT 06840 (US). TEDESCO, Daniel, E. [US/US]; Apt. 6, 192 Park Street, New Canaan, CT 06840 (US). BEMER, Keith [US/US]; 225 East 95th Street, Apt. 34B, New York, NY 10128 (US).

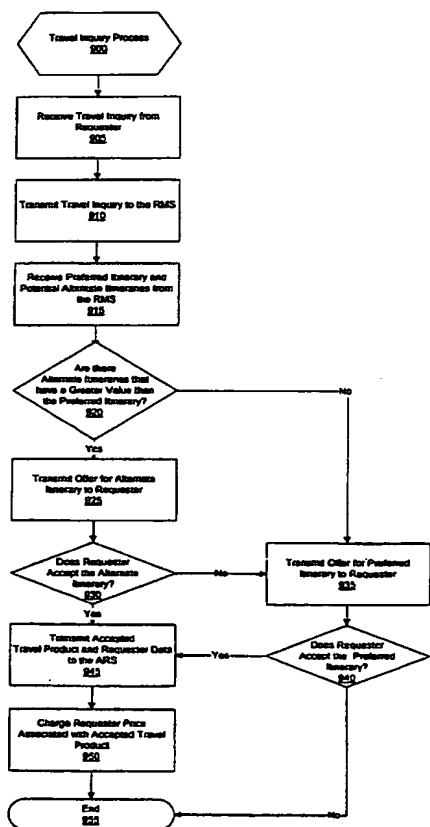
(74) Agent: ANDRES, John; Priceline.com Incorporated, 800 Connecticut Avenue, Norwalk, CT 06854 (US).

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(54) Title: SYSTEM AND METHOD FOR FACILITATING THE SALE OF A TRAVEL PRODUCT



(57) Abstract: A system and method for facilitating the sale of travel products is disclosed. The system receives travel inquiries from requesters for preferred travel products (905). The system in turn selects and offers the requester an alternate travel product which has a greater value to the seller if sold than the requester's preferred travel product (925). Various systems and methods are disclosed for determining whether an alternate travel product has a greater value to the seller if sold than the preferred travel product. Exemplary determinations are based on profit margin and load factor discrepancy between the preferred travel product and the alternate travel product. The system further provides for the selection and offering of a benefit in conjunction with a requester's acceptance of an alternate travel product, and for the selection of the benefit based on the differences between the requester's preferred travel product and the alternate travel product.

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**SYSTEM AND METHOD FOR
FACILITATING THE SALE OF A TRAVEL PRODUCT**

This application claims the benefit under 35 U.S.C. §120 of prior U.S. Provisional Patent Application Serial No. 60/151,659 filed August 31, 1999, entitled SYSTEM AND
5 METHOD FOR FACILITATING THE SALE OF A TRAVEL PRODUCT.

BACKGROUND

Currently, many airlines employ revenue management systems (RMS), such as the Talus™ AirRMS, in an attempt to allocate inventory more effectively to appropriate fare classes. By periodically adjusting the inventory available in a given fare class, an airline can
10 more nearly optimize the revenue generated through the sale of inventory. As the flight date approaches, more inventory tends to be allocated to the more expensive fare classes. As such, airlines are able to ensure that they are charging the least price-sensitive segment of their customer base a near optimal price. The price-bias of such a system is designed to target different population segments in which customers fall.

15 One way to measure the effects of the price-bias or restrictive-bias associated with a given flight is to measure the load factor associated with a given flight. A load factor is defined as a percentage of tickets currently booked for a given flight as compared to the total number of tickets available for the flight. For example, a 95% load factor associated with a given flight indicates that 95% of the tickets that are available for the flight have been
20 booked, with 5% remaining unbooked. Typically a small load factor indicates that tickets

were too expensively priced or that there were too many restrictions imposed for the given flight, thereby discouraging customers from purchasing them. Conversely, large load factors typically indicate that prices were not expensive enough or that the imposed restrictions were not strict enough. In such cases an airline may have traded higher margins for a larger
5 volume of ticket sales that may result in a dilutionary effect on over-all sales in the long run.

By under-booking a flight (e.g., allocating a relatively greater amount of inventory to more expensive fare classes so as to purposefully not sell all available inventory), an airline is able to insure that tickets are not sold at too inexpensive a price. By over-booking a flight (i.e., purposefully booking too many tickets) the airline is able to account for
10 "no-shows", or customers who purchase a ticket but fail to arrive at the appropriate airport gate in time for departure. Using known revenue management techniques, airlines can estimate how much to under-book or over-book a given flight based on such factors as the historical and current demand for the given flight. Both under-booking and over-booking levels are measured by load factors. For example, an airline may determine that the
15 appropriate booking level for a given flight may be 105% (e.g., on a 100 seat flight, 105 tickets should be booked). Similarly, an airline may determine that the appropriate booking level for a given flight may be 75% (e.g., on a 100 seat flight, only 75 tickets should be booked).

Airline customers generally may be categorized as either business travelers or
20 leisure travelers. Business travelers are typically less price-sensitive than leisure travelers, but

are also less flexible in their travel arrangements. Accordingly, by associating certain travel restrictions with discounted fare classes, airlines can successfully “fence out” business travelers from purchasing discount tickets. This is done because business travelers typically have the resources to afford more expensive fares. Imposing such restrictions creates a
5 restrictive-bias designed to separate an airline’s customer base into different groups, each group having different price sensitivity and travel flexibility.

For many travelers, especially leisure travelers, the inconvenience associated with making slight alterations to a given set of travel plans is relatively low. Leisure travelers typically make their travel arrangements well in advance and are receptive to changing those
10 arrangements, especially if a benefit of some sort is offered to them. The advantage an airline can gain from such changes in travel plans is relatively high. For example, an airline will often overbook a given flight and subsequently offer benefits to customers who agree to travel on a different flight. The increased revenue in ticket sales from overbooking gained by the airline typically exceeds the cost associated with moving overbooked passengers from one
15 flight to another. Leisure travelers who agree to be “bumped” from one flight to another typically perceive the benefit gained to be greater than the inconvenience of switching flights. By increasing their ability to bump customers, and thereby more efficiently control the demand for various itineraries, airlines could substantially increase their revenue.

For the foregoing reasons, there is a need for a system and method of
20 facilitating the sale of travel products while maintaining both a price bias and a product bias.

SUMMARY

The present method and system is directed to a system and method that satisfies this need by proactively marketing alternative travel products, the sale of which are economically more beneficial to the seller than the sale of the requested travel product.

5 The method and system disclosed herein enables merchants of travel products, such as airlines, to more effectively sell their inventory by more evenly distributing customer demand across available inventory. Generally, the present method and system enables merchants of travel products to shape customer demand to more accurately correspond to available inventory by proactively marketing certain travel products over others on a per
10 transaction basis. In addition, the presently disclosed method and system can reduce the amount of overbooking that is necessary for a given flight, thereby reducing the ill-will that may result from prior overbooking methods.

One embodiment of the present method and system provides for (1) receiving a travel inquiry from a requester, (2) retrieving a requested travel product and at least one
15 alternate travel product based on the travel inquiry, (3) determining whether the alternate travel product has greater value to the seller than the preferred travel product, (4) transmitting an offer to sell an alternative travel product having a greater value to the seller if sold than the preferred travel product and (5) receiving an acceptance to purchase the alternate travel product.

20 According to further aspects of the method and system, in determining whether the sale of the alternate travel product has a greater value to the seller than the sale of the

preferred travel product, the merchant server may consider the inventory, profit margin, current load factor, potential load factor and/or the load factor discrepancy between the preferred travel product and the alternate travel product.

In accordance with other aspects of the method and system, a benefit is offered
5 in conjunction with the alternate travel product. The benefit is selected based on a benefit rating associated with the alternate travel products. The larger the difference between the preferred travel product and the alternate travel product the greater the benefit rating associated with the alternate travel product. The benefit may include additional frequent flier miles, a price discount, a traveling class upgrade and/or a package deal including other travel
10 products.

These embodiments of the method and system provides travel product providers, such as airlines, hotels and car rental agencies, with a system and method for maximizing revenues by directing travelers to travel products that are economically more beneficial to the seller. For example, an airline may benefit by directing potential travelers
15 from an almost fully booked flight to a less booked flight or may direct travelers away from an under booked flight so that the under booked flight may be cancelled. Similarly, a hotel may direct travelers away from rooms during an anticipated busy holiday weekend or convention to a less busy time. In this way the hotel will fill the rooms during busy periods with more product sensitive travelers while steering less product sensitive travelers to off-
20 peak times.

BRIEF DESCRIPTION OF THE DRAWINGS

These and other features, aspects and advantages of the present method and system will become better understood with regard to the following description, appended claims and accompanying drawings where:

5 **Fig. 1** is a block diagram depicting an overview of the inventive system.

Fig. 2 is a block diagram depicting a merchant server of Fig. 1.

Fig. 3 is a block diagram depicting a RMS of Fig. 1.

Fig. 4 is a tabular representation of an itinerary database maintained by a merchant server depicted in Fig. 2.

10 **Fig. 5A and 5B** are tabular representations of an inventory database maintained by a RMS shown in Fig. 3.

Fig. 6 is a tabular representation of a benefit rating database used by a merchant server shown in Fig. 2.

15 **Fig. 7** is a tabular representation of a benefit database used by a merchant server shown in Fig. 2.

Fig. 8 is a tabular representation of a requester database used by a merchant server shown in Fig. 2.

Fig. 9 is a flow chart illustrating a method for processing the sale of an airline ticket performed by a merchant server shown in Fig. 2.

20 **Fig. 10** is a flow chart illustrating a subroutine of the method performed in Fig. 8 for determining an alternate itinerary based on profit margin.

Fig. 11 is a flow chart illustrating a subroutine of the method performed in Fig. 8 for determining an alternate itinerary based on load factors.

Fig. 12 is a flow chart illustrating a subroutine of the method performed in Fig. 8 for determining an alternate itinerary based on the class of the preferred itinerary.

5 Fig. 13 is a flow chart illustrating a method for selecting a benefit to associate with a travel product.

DETAILED DESCRIPTION

The examples and explanations discussed hereafter focus on airline tickets or itineraries as an exemplary travel product. However, it should be understood that the method
10 and system is equally applicable to the sale of all travel products, including, hotels rooms, car rentals, train tickets and equivalent products, including, movie tickets, play tickets, sports tickets and the like.

I. Terms and Definitions

As used herein the following terms are defined to mean:

15 **Alternate Travel Product** – a travel product selected based on the travel inquiry received from the requester wherein the travel product may vary by one or more data elements from the preferred travel product such as by itinerary, e.g., travel date, class, or the like. Typically the travel products associated with the alternate itinerary produce a more beneficial economic effect for a seller when sold.

Benefit – a product, discount, package deal or the like awarded to a requester in exchange for accepting an alternate itinerary as opposed to a preferred itinerary.

Current Load Factor – a percentage representing the number of tickets currently booked for a given flight as compared to the total number of tickets available for the flight.

Load Factor – a percentage representing the number of tickets booked for a given flight as compared to the total number of tickets available for the flight.

Optimal Load Factor – a load factor associated with a given flight that is estimated to produce near optimal revenue without damaging existing pricing structures.

Load Factor Discrepancy – the difference between the optimal and projected or current load factor associated with a given flight.

Load Factor Threshold – the minimum load factor associated with a given flight below which it is no longer acceptable for an airline to sell tickets for the flight.

Package Deal – an offer including supplemental products offered at a discount on the condition that a requester accept an alternate itinerary instead of the preferred itinerary.

Preferred Travel Product – the travel product or itinerary that is determined based on a travel inquiry received from a requester.

Projected Load Factor – an estimated load factor associated with a given flight, based in part on the current load factor, historical sales data and the like.

Requester - a corporate or private travel agent, central reservation system or a private consumer or traveler who submits a travel inquiry for a travel product.

Travel Product Record - data indicative of a travel product, such as a flight number, travel dates, desired class (1st, business, coach, etc.) and the like.

Travel Inquiry – travel data received from a requester for a particular travel product or itinerary.

5 **Travel Product** – any travel related product or service including (1) airline tickets, (2) hotel rooms, (3) rental cars, (4) cruise tickets, (5) train tickets, (6) any combination or equivalent thereof.

II. Introduction

10 The method and system selects and offers an alternate travel product to a traveler when the alternate travel product provides a greater economic benefit to the seller than the requested travel product. In this method and system a merchant server receives a travel inquiry from a requester indicative of a preferred travel product. The merchant server then retrieves travel product records for the preferred and alternate travel products from the
15 revenue management system (RMS). The travel product record includes revenue management factors such as profit margins, current load factors, optimal load factor and the like generated by a revenue management system (RMS). The merchant server uses these factors to determine if there is an alternate travel product that is more economically beneficial to the merchant if sold than the sale of the requested travel product. If so, the merchant server
20 offers the requester the alternate travel product. In conjunction with the alternate travel

product the merchant server may also offer a benefit as a means of encouraging the requester to accept the alternate travel product.

III. System Architecture

Fig. 1 shows one embodiment of the system. In the illustrated embodiment, the system includes a plurality of travel product sellers 101, 102, 103 each having a merchant server 200 operated in communication with a revenue management system (RMS) 300 and a reservation system 110. Travelers 120, travel agents 140 and central travel servers 130 may all communicate with the travel product sellers either directly or indirectly.

System Components

Referring to Fig. 1, each travel product seller 101, 102, 103 has a merchant server 200, revenue management system (RMS) 300 and reservation system (RS) 110 that may each be implemented as single general purpose computers as described below. In the case of an airline, the reservation system is an airline reservation system (ARS). In other embodiments the functionality of the merchant server 200, RMS 300 and RS 110 may be combined into a single computer or distributed over a plurality of computers. The RMS 300, RS 110 and requester device 120 are connected directly or indirectly to merchant server 200 and the merchant server 200 is connected to travelers 120, travel agents 140 and/or central reservation services 130 via conventional high-speed connection, such as, a local area network (LAN), a wide area network (WAN), an internet connection or the like, via a public switched phone network, dedicated data line, cellular network, personal communication

system (PCS), microwave, satellite networks, cable or the like employing known communication protocols, such as TCP/IP.

In the illustrated embodiment shown in Figs. 2 and 3, the merchant server 200 and RMS 300 computers each include a central processing unit (CPU) 205, 305, random access memory (RAM) 210, 310, read only memory (ROM) 215, 315, and mass storage device 220, 320, respectively. The RS 110 shown in Fig. 1 may also be implemented as a single general purpose computer similar to those shown in Figs. 2 and 3. The RS 110 stores and executes program code and handles data necessary to reserve travel products according to known methods.

The CPU's 205, 305 of the merchant server 200 and RMS 300 comprise conventional microprocessors such as Intel Pentium processors electrically coupled to each of the merchant server and RMS's other elements. The CPU's 205 and 305 execute merchant server program code 222 and RMS program code 322 respectively, stored in one or more of their respective RAM 210, 310, ROM 215, 315, and mass storage devices 220, 230. The CPU's 205 and 305 are selected to be adequate to carry out the functions and processes described in connection with the merchant server 200 and RMS 300 in Figs. 9-13.

Referring to Fig. 2, the mass storage device 220 of the merchant server 200 stores merchant server program code 222, an itinerary database 400, a benefit rating database 600, a benefit database 700 and a requester database 800. The itinerary database 400 contains information about the itineraries selected for a requester in response to a travel inquiry. The benefit rating database 600 associates a benefit rating with the difference between a preferred

travel product and an alternate travel product. The benefit database 700 contains benefits associated with benefit ratings. The requester database 800 contains information related to each requester.

Referring to Fig 3, the mass storage device 320 of the RMS 300 stores RMS program code 322 and inventory database 500. The inventory database contains an inventory of travel products. Sample content of the databases 400-800 are illustrated in Figs. 4-8.

IV. Data Storage and Formats

Samples of the contents of the itinerary database 400, inventory database 500, benefit rating database 600, benefit database 700 and requester database 800 are shown in Figs. 4-8, respectfully. The specific data and fields illustrated in these figures represent only one embodiment of the records stored in the databases used in the method and system. In most cases, the fields shown in Figs. 4-8 are self explanatory. It should be understood that the data and fields, as well as the number of databases can be readily modified from the described embodiment and adapted to provide variations for operating the system and method described. Furthermore, each field may contain more or less information. For example, an address field may be divided into separate fields containing street address, apartment number, city, state, zip code, telephone number and e-mail.

Referring to Fig 4, itinerary database 400 maintains a compilation of itineraries prepared in response to a travel inquiry submitted by a user. Each record in the itinerary database corresponds to one travel inquiry.

The itinerary database 400 shown in Fig. 4 is used by the merchant server to store itineraries prepared by the merchant server in response to travel inquiries. Referring to the sample records 401-402 illustrated in Fig. 4 of the itinerary database 400, each record contains data fields 410-470. These fields correspond to itinerary ID 410, requester ID 420, preferred itinerary 430, alternate itinerary 440, benefit rating 450, benefit 460 and offer status 470.

A record is created in the itinerary database 400 for each travel inquiry submitted by a requester. The data fields for each record are populated by the merchant server with information retrieved and collected from the RMS inventory database 500 and the requester database 800. The itinerary ID field 410 contains a unique itinerary ID number for each record in the database. The requester ID field 420 contains a unique requester ID number associated with each requester. The requester ID number is extracted from the requester database 800. The preferred itinerary field 430 and alternate itinerary field 440 contain information relating to the travel products associated with the preferred and alternate itineraries respectively. The preferred itinerary field 430 and alternate itinerary field 440 may each contain a plurality of entries wherein each entry represents one leg of the trip. For example, as shown in record 401 the preferred itinerary field 430 and alternate itinerary field 440 contain round trip flight information. The information stored in the preferred itinerary field 430 and alternate itinerary field 440 may be extracted from the RMS inventory database 500 and includes at least the travel date, flight number and class. In alternative embodiments, these fields may contain a cross reference to the corresponding travel product in the inventory

database 500. The benefit rating field 450 and benefit field 460 store information related to the benefit associated with acceptance of the alternate itinerary. The benefit rating field 450 stores a rating value attributable to the differences between the preferred itinerary and the alternate itinerary. The benefit rating field 450 is populated by the merchant server using
5 information extracted from the benefit rating database 600 discussed below. The benefit field 460 contains a benefit corresponding to the benefit rating associated with the alternate itinerary. The benefit field 460 is populated by the merchant server using information extracted from the benefit database 700 discussed below. The last field, offer status 470, contains information relating to whether the user has accepted the alternate itinerary. If the
10 requester has accepted the alternate itinerary the merchant server marks the field accepted.

In one embodiment, the inventory database 500 shown in Fig. 5 stores an inventory of scheduled flights. Referring to the sample records 502 through 508 illustrated in Fig. 5A-B of the inventory database 500, each record contains data fields 515 through 580. These fields correspond to flight number 515, origin and destination (O and D) pair 520, departure date 525, departure/arrival time 530, availability 535, current price 540, profit
15 margin 550, current load factor 555, optimal load factor 560, projected load factor 570, optimal load factor discrepancy 575 and load factor threshold 580.

The records of the inventory database 500 are created by the RMS 300 in conjunction with the RS 110. In the illustrated embodiment there is a database record for
20 each flight number or O and D pair. The RMS 300 and scheduling system cooperate to generate flight numbers, O and D pairs, departure dates, departure/arrival times and

availability. The flight number field 515 contains a unique identifier for each flight. The O and D pair field 520 contains an airport identifier relating to the origin and destination of each flight. The departure date field 525 and departure/arrival time field 530 store the departure date and departure and arrival times for each flight.

5 The last eight fields of the inventory database 500 store primarily dynamic information relating to current booking levels. The RMS 300 populates and maintains these data fields relating to availability 535, current price 540, profit margin 550, current load factor 555, optimal load factor 560, projected load factor 570, optimal load factor discrepancy 575 and load factor threshold 580.

10 The availability field 535 stores information relating to fare classes and/or seating classes and the corresponding seating availability for each flight. The availability field 535 is initially generated by the RMS 300 in combination with a scheduling system to provide the seating capacities and class distributions of the plane assigned to the scheduled flight. The current price field 540 indicates the current price associated with a given flight for
15 each seating and/or fare class on the flight. The profit margin field 550 indicates the profit earned on the sale of a seat on the flight for each class. The current load factor field 555 stores a percentage representing the number of tickets currently booked for a given flight and class verses the total number of tickets available for the flight and class. The optimal load factor field 560 stores the load factor associated with each class on a given flight that is
20 estimated to produce near optimal revenue without damaging existing pricing structures. The projected load factor field 570 stores an estimated load factor associated with a given flight

and class, based in part on the current load factor, historical sales data and the like. The optimal load factor discrepancy field 575 stores the load factor that is estimated to produce near optimal revenue without damaging existing price structure. The load factor threshold field 580 stores the minimum load factor associated with a given flight and class below which it is no longer acceptable for an airline to sell tickets for the flight.

Referring to Fig 6, the benefit rating database 600 contains information relating the benefit rating associated with differences between a preferred travel product and an alternate product. Each record in the benefit rating database 600 corresponds to a potential difference between the preferred and alternate products. Referring to sample records 601 through 613 illustrated in Fig. 8, each record has a data field 620 corresponding to condition/feature and data field 630 corresponding to rating. The condition/feature field identifies a difference between the preferred and alternate itineraries. The rating field corresponds to rating point associated with the condition or feature. For example, if the alternate travel product has a destination airport between 20 and 50 miles from the destination airport of the preferred travel product a hypothetical benefit rating of eight has been assigned to the alternate travel product. As will be discussed in further detail below, the benefit rating database 600 is used in conjunction with the benefit database 700 to generate a benefit corresponding to an alternate travel product.

As illustrated in Fig. 7, the benefit database 700 contains information relating to the benefits associated with a particular benefit rating. Each record in the benefit database 700 corresponds to a different benefit rating level or range. Referring to sample records 701

through 706 each record in the benefit database 700 contains a total benefit rating field 710 and a benefit field 720. The total benefit field 710 identifies a benefit rating level or range. The benefit field 720 identifies benefits corresponding to the benefit rating. For example, a benefit rating of eight is associated with the benefit of 100 frequent flyer miles or a \$40

5 discount on a car rental. This database is used by the merchant server in conjunction with the benefit rating database to select a benefit to associate with an alternate travel product.

Referring to Fig. 8, requester database 800 contains information relating to the requester. Each record in the requester database 800 corresponds to one requester or traveler. The requester database 800 shown in Fig. 8 is used by the merchant server to keep detailed
10 records associated with each requester so as to facilitate reserving a travel product and customizing benefits offered to the requester in conjunction with certain embodiments of the method and system. Referring to sample records 801-803 illustrated in Fig. 8 of the requester database 800, each record contains data fields 810-820. The fields correspond to requester ID 810, requester name 811, address 812, phone, 814, credit card 816, preferred benefit 818 and
15 accepted benefits 820.

The data fields for each record are populated by the merchant server and information provided by the requester. For example, the requester ID field 810 and accepted benefits field 820 are supplied by the user. The remaining fields are populated with information supplied by the requester. This information may be collected during a
20 registration process or during the purchase of the requester's first travel product. The fields are primarily self explanatory. The requester ID field 810 stores a unique identification

number assigned to each requester by the merchant server. The requester name field 811 stores each requester's name. The address field 812 stores the requester's mailing address and/or billing address. The credit card field 816 stores the requester's credit card information for billing purposes. The preferred benefit field 818 and accepted benefit field 820 store a preferred benefit requested by the requester and a record of benefits the requester has accepted in the past, respectively. Using the information stored in the preferred benefit field and the accepted benefit field, the merchant server may make a requester tailored benefit selection as will be discussed below. For example, the system may record whether a given requester accepted a benefit and offer that benefit again, or not offer that benefit again.

Further, a requester may register her preference for a given benefit and receive that benefit exclusively or more often than others. For example, a given requester may prefer to sit in 1st class, and is willing to accept an alternate itinerary in exchange for a 1st class ticket at a coach fare. The benefit selection process is discussed in detail below in conjunction with Fig. 13.

V. Travel Inquiry Process

In the illustrated embodiment, the travel product is an airline ticket or tickets comprising a flight travel itinerary and the requester is a traveler submitting a travel inquiry directly to a single merchant server 200. Referring to Fig. 9, the travel inquiry process begins at step 905 when a requester such as a traveler 120 submits a travel inquiry to the merchant server 200. A traveler 120 may submit an inquiry to a merchant server 200 directly or in directly through a travel agent 140 or central reservation system 130. The travel inquiry comprises travel data that identifies a preferred itinerary for which the traveler would like to

purchase a ticket. The travel inquiry may not identify a preferred itinerary, but instead a range of preferred travel parameters. Travel inquiry data may contain information such as the origin and destination (O and D), airline, flight number, travel dates and times, desired class and the like, descriptive of the traveler's preferred itinerary. If the preferred itinerary is for a round-trip ticket, the travel data may identify two flights - the departing and the returning flight. It is also contemplated that the travel inquiry may take the form of a conditional purchase offer submitted through a conditional purchase offer management system, such as priceline.com Incorporated, available at www.priceline.com. For further information regarding conditional purchase offer management systems, reference may be made to U.S. Patents 5,794,207 and 6,085,169, herein incorporated by reference.

After receiving a travel inquiry, in step 910 the merchant server 200 transmits the travel inquiry to the RMS 300. The RMS 300 selects the preferred travel itinerary and one or more alternate itineraries from the inventory database 500 based on the travel inquiry. The preferred travel itinerary is the travel product from the inventory database that most closely matches the travel inquiry transmitted by the requester. An example of a preferred itinerary is shown in fields 430 of the itinerary database depicted in Fig. 4. The first preferred itinerary, shown in record 401 (Itinerary ID 99-001), identifies a round trip flight departing on 7/20/1999 on flight number 980, and returning on 7/29/1999 on flight number 1640. The second preferred itinerary, shown in record 402 (Itinerary ID 99-002), identifies a round trip flight departing on 7/29/1999 on flight number 930, and returning on 8/14/1999 on flight

number 384. Further details concerning the above referenced flights may be found in the inventory database depicted in Fig. 5A and 5B.

An alternate itinerary is any travel product other than the preferred travel product. The alternate itinerary should be similar enough to the preferred itinerary so as to be
5 a reasonable substitute for the preferred itinerary. The RMS 300 may select alternate itineraries based upon requester or system defined tolerances for variation from the travel inquiry data. For example, the airline server 200 may only retrieve itineraries having (1) the same origin and destination (O and D) pair as that of the preferred itinerary, (2) departure dates that are within a specific range of days of the departure date associated with the
10 preferred itinerary or (3) departure times that are within a specific time deviation of the departure time associated with the preferred itinerary.

By further example with reference to Figs. 4, 5A and B, sample record 504, flight number 862, may be a possible alternative to flight number 1640 which is the returning flight associated with the preferred itinerary in record 401 of Fig. 4. Both flight number 862
15 and flight number 1640 depart from Cleveland and arrive in New York City, number 1640 landing at LGA, and number 862 landing at JFK. Both flights depart on the same day, but number 862 departs 4 hours later than number 1640. Depending on the defined limits of variation, flight number 862 could be retrieved as a possible alternate for flight number 1640.

In another example, referring to Fig. 5A and B, flight number 930 depicted in
20 record 508 is very similar to flight number 1580 depicted in record 506. The two flights share the same O and D pair and the same departure date. They differ in that flight number 1580

departs 6½ hours later than flight number 930. Depending again on the limits of variation, flight number 1580 could be retrieved as a possible alternate for flight number 930.

The RMS searches for all alternate flights that fall within the limits of variation. If the RMS 300 fails to determine at least one flight for an alternate itinerary, the
5 RMS may send the merchant server 200 a signal indicating that no alternate itinerary could be determined. In this case the merchant server may then transmit to the requester an offer for a ticket consistent with the preferred itinerary as discussed below, including the flight numbers, dates and times of departure and the current price.

Assuming the RMS 300 found at least one alternate itinerary, in step 915, the
10 RMS 300 communicates the preferred travel itinerary and one or more of the potential alternate itineraries to the merchant server 200. In step 920, the merchant server 200 then determines whether any of the potential alternate itineraries should be offered to the requester instead of the requester's preferred itinerary. In making this determination, the merchant server 200 typically determines which of the retrieved alternate itineraries would be of greater
15 value or produce a more beneficial economic benefit for the airline, as compared to the preferred itinerary, if sold. As will be discussed below in conjunction with Figs. 10-12, the merchant server 200 may consider a number of factors in this determination, including, for example, profit margins and load factors associated with both the preferred and alternate itineraries.

20 If there are no alternate itineraries that have a greater value to the seller than the preferred itinerary, in step 935 the merchant server 200 transmits an offer for the preferred

itinerary. If the merchant server 200 identifies an alternate itinerary having a greater value than the preferred itinerary, in step 925 the merchant server 200 transmits an offer to sell the alternate itinerary. As will be discussed below with reference to Fig. 13, in alternate embodiments of the method and system, an associated benefit may be offered in conjunction with acceptance of the alternate itinerary. The benefit is offered to offset the variations in travel data imposed upon the requester by the alternate itinerary and to encourage the requester to accept the alternate itinerary. The system may randomize its selection of both alternate itineraries and benefits offered in order to prevent dilution of any particular alternate itinerary or benefit due to predictability of the alternate itinerary offer.

Proceeding to step 930, the merchant server determines whether the requester has accepted the alternate itinerary. If not, in step 935 the merchant server 200 transmits an offer to sell the preferred itinerary to the requester. In alternate embodiments, the offer for the preferred itinerary may be transmitted to the requester before or at the same time as an offer for the alternate itinerary. In yet other embodiments the merchant server 200 may send one or more additional alternate itineraries to the requester prior to sending the preferred itinerary. In step 940 the merchant server determines whether the requester has accepted the preferred itinerary. If the requester has rejected the preferred itinerary the process ends at step 955.

If the requester has accepted either the alternate itinerary in step 930 or the preferred itinerary in step 940, the process proceeds to step 945. In step 945 the merchant server transmits the accepted itinerary data, any associated benefit and the requester data from the requester database 800 to the RS 110. In step 950, the RS 110 reserves and tickets the

travel products associated with the accepted travel product, and charges the requester for the reserved and ticketed travel product. The process then concludes at 955.

Alternate Itinerary Margin Determination Process

The alternate itinerary margin determination process is a subroutine of step 920
5 of the travel inquiry process illustrated in Fig. 9 for determining the comparative value of a preferred and alternate itinerary. The alternate itinerary margin determination process is one of three alternate selection processes illustrated in Figs. 10-12. In this process the determination as to the value of the sale of a travel itinerary is based on the profit margin associated with the itinerary. A profit margin is the difference between the price and the cost
10 associated with an itinerary.

The alternate itinerary margin determination process 1000 begins at step 1010. In step 1010, the airline server determines whether any of the alternate itineraries have a greater profit margin than the preferred itinerary. If there are no alternate itineraries having a greater profit margin than the preferred itinerary the process ends at step 1030 and the
15 preferred itinerary is transmitted to the requester as discussed above in conjunction with Fig. 9, step 935. If there is at least one alternate itinerary having a greater value than the preferred itinerary, the process proceeds to step 1020. In step 1020, the merchant server selects the alternate itinerary or itineraries to offer the requester in order of greatest value to the seller. The process then ends at step 1030 and the alternate itinerary or itineraries are transmitted to
20 the requester as discussed above in conjunction with Fig. 9, step 925.

As an example, a requester may request an airline ticket departing, from CLE on 7/23/1999 at 5:00 PM and arriving at LGA. The price associated with this ticket may be, for example, \$175. The merchant server may determine that there is a similar flight departing from CLE and arriving at LGA on 7/23/1999, departing at 8:00 PM rather than 5:00 PM. The price associated with the flight departing at 8:00 PM may be \$200. Assuming that all airline tickets between CLE and LGA cost the airline the same amount (e.g., the same kind of jets are flown with the same amount of fuel, etc.), the profit margin associated with the alternate ticket is \$25 greater than the first ($\$200 - \$175 = \$25$). Thus, if the requester accepts the second ticket, the system will retain an extra \$25. Taking this into consideration, the merchant server may choose to offer the requester the second ticket for the alternate itinerary before offering the first ticket for the preferred itinerary.

Alternate Itinerary Load Factor Discrepancy Determination Process

The alternate itinerary load factor discrepancy determination process is another subroutine of step 920 of the travel inquiry process illustrated in Fig. 9 for determining the comparative value of the alternate itinerary verse the preferred itinerary. The alternate itinerary load factor discrepancy determination process is the second of the three alternate selection processes. In this process the determination as to the value of the sale of a travel itinerary is based on the load factor discrepancy associated with each itinerary. A load factor discrepancy is the difference between the optimal load factor and either the current or projected load factor associated with each itinerary.

The RMS 300 calculates the projected load factor for a given itinerary by measuring the current load factor associated with a given flight and comparing it to historical sales data. The projected load factor represents an estimation of what the load factor associated with a given flight will be, on the flight date. Further, using known revenue management techniques, the RMS is able to approximate an optimal load factor associated with a given flight. The optimal load factor represents an estimation of the optimal value for the final load factor associated with a given flight (i.e., the value that will produce the most revenue without damaging the integrity of existing price structures).

The alternate itinerary load factor discrepancy determination process 1100 begins at step 1110. In step 1110, the merchant server determines whether there is at least one potential alternate itinerary with a greater load factor discrepancy than that of the preferred itinerary. If there are no alternate itineraries having a greater load factor discrepancy than the preferred itinerary the process ends at step 1135 and the preferred itinerary is transmitted to the requester as discussed above in conjunction with Fig. 9, step 935. If there is at least one alternate itinerary having a greater load factor discrepancy than the preferred itinerary the process proceeds to step 1120. In step 1120 the merchant server selects the alternate itineraries having the greatest load factor discrepancy.

This process directs requesters away from flights that are expected to achieve, or even surpass, their optimal load factors, and toward flights that are currently not expected to achieve their respected optimal load factors. In this way airlines may be able to more closely approximate optimal levels of revenue across a larger portion of their inventory. For

example, the optimal load factor associated with a flight departing from CLE and arriving at LGA may be 75%, and the projected final load factor may be 60%. The load factor discrepancy in this case is 15% ($75\% - 60\% = 15\%$). In an attempt to increase the projected final load factor of the flight, so as to more closely approximate the optimal load factor, the airline may offer tickets for the flight as part of an alternate itinerary.

In the illustrated embodiment, once the merchant server selects an alternate itinerary to offer, the process proceeds to step 1125. In step 1125, the merchant server determines whether the projected final load factor for the alternate itinerary falls below the corresponding load factor threshold. The load factor threshold is calculated by the RMS and is defined as the load factor value below which it is no longer profitable for the airline to sell tickets for that itinerary. For example, the load factor threshold may be assigned a value so as to offset the costs associated with operating the jet, paying employees, utilizing airport facilities, etc. If the projected final load factor associated with a given flight falls below this threshold, it is no longer profitable for the airline to operate the given flight. In this case the airline may attempt to direct enough requesters away from the flight in order to justify canceling the flight. This may be accomplished by offering alternate itineraries to requesters interested in purchasing tickets for the given flight. For example, the load factor threshold for a first flight from CLE to LGA may be 35%. The current projected final load factor for the first flight may be 30%. Requesters who request a ticket for the first flight may be directed to a second flight between CLE and LGA departing 4 hours later than the first flight, but having a current projected final load factor of 60% and an optimal load factor of 75%. It is more

likely that the airline will be able to reach the optimal load factor associated with the second flight than the first, and it may be possible to cancel the first flight if enough requesters are directed away from the flight.

Proceeding to step 1125, if the projected load factor falls below the
5 corresponding load factor threshold, the process repeats, returning to step 1120 and selecting the alternate itinerary having the next highest load factor discrepancy. If the projected load factor is above the corresponding load factor threshold the process ends at step 1135 and the merchant server transmits the alternate itinerary to the requester as discussed above in conjunction with Fig. 9, step 925.

10 **Alternate Itinerary Class and Load Factor Determination Process**

The alternate itinerary class and load factor determination process illustrated in Fig. 12 is another subroutine of step 920 of the travel inquiry process illustrated in Fig. 9. The alternate itinerary class and load factor determination process is the third of the three illustrated alternate selection processes. In this process the determination as to the value of
15 the sale of a travel itinerary is based on the load factor discrepancy associated with the class of a preferred itinerary with the load factor discrepancy of alternate classes.

The merchant server 200 may determine that, by changing the class of the preferred itinerary (i.e., from coach to first class), it may be able to open up space for another requester. For example, coach class tickets on a given flight may be in high demand, while
20 first class tickets on the same flight may be in lower demand. By offering a requester who preferred a coach class ticket a first class ticket instead, the system may be able to sell the

coach class ticket to a different requester. In effect the system may be able to sell a first class ticket (that would not have been otherwise sold) at a coach fare, and sell the coach class ticket (that the first requester would have bought) to a different requester, thus selling two tickets instead of one.

5 The alternate itinerary class and load factor determination process 1200 begins with step 1215. In step 1215, the merchant server compares the load factor discrepancy of the preferred class (the class of ticket the requester preferred) and the load factor discrepancies associated with other classes of tickets associated with the preferred itinerary. The merchant server 200 receives this information from the RMS 300 with the information relating to
10 potential alternate itineraries. The load factor discrepancy associated with a class of ticket for a given itinerary measures the difference between the projected load factor for the class (i.e., the estimated number of tickets that will be booked for the class as compared to the total number of tickets available in the class) and the optimal load factor for the class (i.e., the estimated optimal number of tickets that should be booked for the class as compared to the
15 total number of tickets available for the class). If there are no alternate classes having a greater load factor discrepancy than the preferred class, the process ends at step 1230 and the merchant server transmits the preferred itinerary to the requester as discussed above in conjunction with Fig. 9, step 935. If there are alternate classes having greater load factors than the preferred class, the merchant server proceeds to step 1220.

20 In step 1220, the merchant server selects the alternate class having the greatest load factor discrepancy. Having determined an alternate class, in step 1225, the merchant

server determines an alternate itinerary based on the alternate class. For example, if the airline server determined that the load factor discrepancy associated with a coach ticket was greater than that of a first class ticket, the airline server may offer the requester a coach ticket on the same flight instead of a first class ticket in order to decrease the load factor discrepancy associated with coach class tickets to a more acceptable level.

In alternate embodiments, the system may attempt to determine whether the given requester is a business or leisure traveler, so that the system can offer an itinerary that is geared toward the type of traveler. For example, if the system determines that the requester is a business traveler, it may direct the requester to a business class or first class ticket. Such tickets typically generate more revenue as compared to lower class tickets, since business travelers are typically less price sensitive than leisure travelers. In order to determine what type of traveler a given requester is, the system may consider such factors as whether the preferred itinerary includes a Saturday night stay, or whether the purchase request was entered at least two weeks before the preferred date of departure, both of which usually indicate a leisure traveler.

Benefit Selection Process

A benefit selection process is illustrated in Fig. 13. In this embodiment of the present method and system, a benefit is selected and offered to the requester in exchange for the requester accepting the alternate itinerary. The extent of such benefits may be determined based on the differences between the preferred itinerary and the alternate itinerary.

The benefit selection process 1300 is a subroutine of step 920 of Fig. 9. The process begins at step 1305. In step 1305 the system compares the travel data for the preferred and the alternate itinerary to determine the differences. For example, referring to Fig. 4 record 401, the system compares the preferred itinerary (flight #980 and #1640) to the alternate itinerary (flight #980 and #862). Data relating to these flights is stored in the inventory database 500. In this case, the departing flight for the two itineraries is the same, but there are differences between the returning flights. Flight #1640 departs from CLE and arrives a LGA, while flight #862 departs from CLE and arrives at JFK. Further, flight #862 departs four hours later than flight #1640.

Subsequently, in step 1310, the merchant server uses the differences between the travel data of the requester's preferred itinerary and the travel data associated with the alternate itinerary to generate a benefit rating. Typically, the greater the differences between the two data sets, the greater the benefit rating. In the illustrated embodiment, the system queries a benefit rating database 600 to retrieve the benefit rating associated with the difference in each travel parameter. The system may weight certain travel parameters more than others in proportion with the burden the requester is asked to bear. For example, the time of departure may be weighted less than the date of departure, since it is typically less burdensome to alter a time of departure than a date of departure.

In the illustrated embodiment, the benefit ratings for each difference between the preferred and alternate itineraries are added together to generate a total benefit rating. For example, referring to the benefit rating database 600, the itinerary differences associated with

record 401 of the itinerary database discussed above earn a total benefit rating of eight points - four points for arriving at an airport less than 20 miles away from the preferred airport, and four points for departing four hours later than the preferred departure time.

After generating the benefit rating, in step 1315 the merchant server

5 determines a benefit to offer the requester based on the determined total benefit rating. In the illustrated embodiment, a benefit database 700 is maintained that associates total benefit rating with actual benefits. The system uses the determined benefit rating to query the benefit database 700 and retrieve the benefit associated with the given rating. The benefits associated with a given total benefit rating may be based on the actual value of the given benefit, the
10 perceived value of the given benefit, the breakage rate associated with the benefit, and the like. The available benefits may also be based on a requester profile from the requester database 800, based on data such as a preferred benefit requested by the requester or past benefit accepted or rejected by the requester.

The benefit offered should be perceived by the requester as being at least of
15 equal value to the inconvenience imposed upon the requester for altering his travel plans. For example, there may be only a slight benefit offered to the customer for pushing a departure time up an hour since the inconvenience typically associated with such a change is relatively low, while the benefit offered for changing the departure or arrival date may be significantly greater. Such benefits might include: (1) a discounted price, (2) extra frequent flyer miles,
20 (3) package deals and (4) upgraded class of ticket.

The merchant server may offer the alternate itinerary for a discounted price, as long as the profits gained by the system from booking the alternate itinerary are at least equal to the discount. Although this may amount to creating a price-bias towards the alternate itinerary (as opposed to a product-bias), as long as the discount is only offered to the given requester, and the amount of the discount is determined on a per transaction basis, there is little risk of creating any dilutionary effects.

Some benefits, such as frequent flyer miles, have a high breakage rate associated with them. A breakage rate is defined as the number of benefits allocated but unused as compared to the total number of benefits allocated. For example, if an airline allocates 100 frequent flyer miles to a requester, and the requester only uses 50 of them prior to expiration, there would be a 50% breakage rate associated with the frequent flyer miles ($50/100 = 50\%$). Frequent flyer miles thus function as a particularly good benefit to offer requesters, since they have both a high perceived value to many requesters and have a relatively high breakage rate associated with them.

The merchant server, in conjunction with other merchants (travel product sellers), may determine a package deal to offer the requester. A package deal is defined as a group of products that, if purchased by the requester, earns the requester a discount on at least one of the products in the group. The discount may be subsidized by one of the merchants. For example, in exchange for accepting an alternate itinerary, the airline server may offer a requester a discount on a hotel room in the destination city. The hotel may agree to offer the discount in exchange for the extra business the system is creating for the hotel by offering the

package deal. Pricing products as a package is further beneficial in that it shields the individual prices of the underlying products so that the customer can not obtain the merchant's underlying price flexibility.

5 All of these exemplary benefits may have an expiration date associated with them to encourage requesters to purchase the alternate itinerary at the time that it is offered, and thus mitigate dilutionary effects. Market conditions in an airline environment change quickly so that the most beneficial alternate itinerary for the seller to sell, might not remain so for very long. Thus, encouraging customers to quickly accept alternate itineraries is important. For example, a requester may be offered an alternate itinerary with 200 extra
10 frequent flyer miles if she accepts the offer within 24 hours of receiving it.

Once a benefit is selected in step 1315, the benefit selection process ends at step 1320. The process then proceeds as illustrated in step 925 though 955 of Fig. 9 except that a benefit is associated with the alternate itinerary. For example, the benefit is transmitted to the requester along with the alternate itinerary in step 925. The requester then accepts or
15 rejects the alternate itinerary, including the benefit, in step 930. In other embodiments, the benefit may be offered before or after the alternate itinerary is offered.

If the requester accepts the alternate itinerary, in step 945 the system transmits the alternate itinerary, any benefit and the requester data to the reservation system for booking. Additionally, the system allocates the benefit to the requester. Thereafter the
20 process proceeds as discussed above in conjunction with Fig. 9.

Although the above illustrations are directed primarily to the case of a traveler submitting a travel inquiry directly to a single merchant server 200, as illustrated in Fig. 1, it should be understood that in alternate embodiments, the traveler 140 may submit a travel inquiry through a travel agent 140 or central reservation service 130. In these embodiments travel agent 140 or central reservation service 130 may query a single merchant server or multiple merchant servers for preferred travel products matching the travel inquiry and alternate travel products within a define variation from the travel inquiry. The central reservation service or travel agent may then select which travel product to offer as an alternate travel product to the seller based on which offers the greatest benefit to the travel agent or central reservation service if sold. For example, one travel product seller may offer higher commissions for the sale of its travel products then another. Thus a travel agent or central reservation service may offer that travel product seller's product before another travel product seller's product. The central reservation service 130 or travel agent 140 may also handle selection and offering of a benefit in conjunction with acceptance of an alternate travel product. Accordingly, it should be understood that the methods and processes discussed above in conjunction with the RMS 300, merchant server 200 and reservation system 110 can similarly be handled by the central reservation service 130 or travel agent 140.

Although illustrative embodiments have been described herein in detail, it should be noted and will be appreciated by those skilled in the art, that numerous variations may be made within the scope of this method and system without departing from the principle of this method and system and without sacrificing its chief advantages.

Unless otherwise specifically stated, the terms and expressions have been used herein as terms of description and not terms of limitation. There is no intention to use the terms or expressions to exclude any equivalents of features shown and described or portions thereof and this method and system should be defined in accordance with the claims that

5 follow.

CLAIMS

What is claimed is:

- 1 1. A computer-implemented method for offering a travel product for sale,
2 comprising:
3 receiving a preferred travel product record and at least one alternate travel product
4 record from an inventory database, the preferred and alternate travel product records being
5 indicative of preferred and alternate travel products;
6 selecting at least one alternate travel product based on the at least one received
7 alternate travel product record, wherein the at least one alternate travel product provides a
8 greater value to a seller if sold than the preferred travel product; and
9 transmitting an offer to sell the selected at least one alternate travel product.
- 1 2. The method of claim 1 further comprising receiving an acceptance to purchase
2 the at least one alternate travel product.
- 1 3. The method of claim 2 further comprising receiving payment for the accepted
2 at least one alternate travel product.
- 1 4. The method of claim 1 further comprising transmitting an offer to sell the
2 preferred travel product.

1 5. The method of claim 1 wherein the preferred and alternate travel products are
2 indicative of at least one of an airline ticket, a hotel room, a rental car, a cruise ticket and a
3 train ticket.

1 6. The method of claim 1 wherein selecting the at least one alternate travel
2 product having a greater value to the seller than the preferred travel product is based upon
3 inventory data associated with the alternate and preferred travel products.

1 7. The method of claim 1 wherein selecting the at least one alternate travel
2 product having a greater value to the seller than the preferred travel product is based upon
3 profit margin data associated with the preferred and alternate travel products.

1 8. The method of claim 1 wherein selecting the at least one alternate travel
2 product having a greater value to the seller than the preferred travel product is based upon a
3 current load factor associated with the alternate and preferred travel products.

1 9. The method of claim 8 wherein the travel products have seating capacities, the
2 current load factor being indicative of the current available seating capacity for a travel
3 product.

1 10. The method of claim 1 wherein selecting the at least one alternate travel
2 product having a greater value to the seller than the preferred travel product data entry is
3 based upon a projected load factor associated with the alternate and preferred travel products.

1 11. The method of claim 10 wherein each travel product has a seating capacity,
2 the projected load factor being an estimate of the available seating capacity for a travel
3 product at the travel date.

1 12. The method of claim 11 wherein the projected load factor is based upon
2 historical travel product data.

1 13. The method of claim 1 wherein selecting the at least one alternate travel
2 product having a greater value to the seller than the preferred travel product is based upon a
3 load factor discrepancy associated with the alternate and preferred travel products.

1 14. The method of claim 13 wherein each travel product has a seating capacity,
2 and an optimal load factor and projected load factor based upon the seating capacity, the load
3 factor discrepancy being based upon the difference between the optimal load factor and a
4 projected load factor for a travel product.

1 15. The method of claim 13 wherein each travel product has a seating capacity,
2 and an optimal load factor and projected load factor based upon the seating capacity, the load
3 factor discrepancy being based upon a difference between the optimal load factor and a
4 current load factor for a travel product.

1 16. The method of claim 1 further comprising selecting a benefit to be associated
2 with the at least one alternate travel product.

1 17. The method of claim 16 further comprising transmitting an offer for the
2 benefit.

1 18. The method of claim 17 wherein the selected benefit has an associated time
2 duration for acceptance.

1 19. The method of claim 17 wherein the selected benefit comprises at least one of
2 additional frequent traveling miles, a price discount, a traveling class upgrade and a package
3 deal.

1 20. The method of claim 17 further comprising generating a benefit rating,
2 wherein the benefit rating is based on a difference between the preferred travel product and
3 the alternate travel product.

1 21. The method of claim 20 wherein the benefit is selected based on the benefit
2 rating.

1 22. The method of claim 17 wherein the benefit is a package deal benefit to be
2 associated with the alternate travel product, the package deal benefit including at least one
3 additional travel product.

1 23. The method of claim 17 wherein the benefit is selected based upon a
2 difference between the value of the alternate travel product and the preferred travel product.

1 24. The method of claim 1 further comprising receiving a travel inquiry that is
2 indicative of a preferred travel product.

1 25. The method of claim 1 wherein the at least one alternate travel product is
2 within a defined variation limit from the received travel inquiry.

1 26. The method of claim 25 wherein the defined variation limit is based on a
2 difference between at least one of dates, times, classes, origin and destination of each
3 alternate travel product and the travel inquiry.

1 27. The method of claim 1 further comprising:

2 receiving a travel inquiry from a requester; and

3 receiving an indication of a preferred benefit from the requester.

1 28. The method of claim 27 further comprising:

2 storing the preferred benefit with an identifier of the requester;

3 receiving a second travel inquiry from the requester;

4 retrieving the stored preferred benefit based upon the identity of the requester; and

5 transmitting an offer for the preferred benefit with an offer to sell a second alternate
6 travel product.

1 29. A computer-implemented method for offering a travel product for sale,
2 comprising:

3 receiving a travel inquiry indicative of a preferred travel product from a traveler;

4 transmitting the travel inquiry to at least one merchant server;

5 receiving at least one alternate travel product record from a merchant server, wherein
6 the at least one alternate travel product record is based upon the travel inquiry, the alternate
7 travel product record being indicative of an alternate travel product;

8 selecting at least one alternate travel product based on the at least one received
9 alternate travel product record, wherein the at least one alternate travel product provides a
10 greater value to a seller if sold than the preferred travel product;

11 transmitting an offer to sell the selected at least one alternate travel product to a
12 traveler; and
13 receiving an acceptance to purchase the at least one alternate travel product from the
14 traveler.

1 30. The method of claim 29 further comprising receiving a preferred travel
2 product record from a merchant server, wherein the preferred travel product record is based
3 upon the travel inquiry, the preferred travel product record being indicative of the preferred
4 travel product.

1 31. The method of claim 30 further comprising selecting a benefit to be associated
2 with the alternate travel product wherein the benefit is selected based on a difference between
3 the preferred travel product and the alternate travel product.

1 32. The method of claim 31 further comprising transmitting an offer for the
2 associated benefit.

1 33. A computer implemented method for purchasing a travel product, comprising:
2 submitting a travel inquiry that is indicative of a preferred travel product;

3 receiving an offer for at least one alternate travel product, wherein the at least one
4 alternate travel product has a greater value to a seller if sold than a preferred travel product,
5 the at least one alternate travel product being based on the travel inquiry; and
6 transmitting an acceptance to purchase the at least one alternate travel product.

1 34. The method of claim 33 further comprising receiving an offer for a benefit
2 associated with acceptance of the alternate travel product, wherein the benefit is based on a
3 difference between the preferred travel product and the alternate travel product.

1 35. A computer implemented method for offering a travel product for sale,
2 comprising:

3 receiving a travel inquiry indicative of a preferred travel product from a traveler;
4 querying at least one merchant server to select a preferred and an alternate travel
5 product based on the travel inquiry;

6 receiving a preferred travel product record and at least one alternate travel product
7 record from a merchant server, the preferred travel product record and alternate travel
8 product records being indicative of travel products;

9 selecting at least one alternate travel product based on the at least one received
10 alternate travel product record, wherein the alternate travel product provides a greater value
11 to a seller if sold than the preferred travel product; and

12 transmitting an offer to sell the selected alternate travel product to the traveler.

1 36. The method of claim 35 wherein the seller is a travel product seller.

1 37. The method of claim 35 wherein the seller is a central reservation system.

1 38. The method of claim 35 wherein the seller is a travel agent.

1 39. A system for offering a travel product for sale, comprising:
2 means for receiving a preferred travel product record and at least one alternate travel
3 product record from an inventory database, the preferred and alternate travel product records
4 being indicative of preferred and alternate travel products;
5 means for selecting at least one alternate travel product based on the at least one
6 received alternate travel product record, wherein the at least one alternate travel product
7 provides a greater value to a seller if sold than the preferred travel product; and
8 means for transmitting an offer to sell the selected at least one alternate travel
9 product.

1 40. A system for offering a travel product for sale, comprising:
2 means for receiving a travel inquiry indicative of a preferred travel product from a
3 traveler;
4 means for transmitting the travel inquiry to at least one merchant server;

5 means for receiving at least one alternate travel product record from a merchant
6 server, wherein the at least one alternate travel product record is based upon the travel
7 inquiry, the alternate travel product record being indicative of an alternate travel product;

8 means for selecting at least one alternate travel product based on the at least one
9 received alternate travel product record, wherein the alternate travel product provides a
10 greater value to a seller if sold than the preferred travel product;

11 means for transmitting an offer to sell the selected at least one alternate travel product
12 to a traveler; and

13 means for receiving an acceptance to purchase the at least one alternate travel product
14 from the traveler.

1 41. A system for purchasing a travel product, comprising:

2 means for submitting a travel inquiry that is indicative of a preferred travel product;

3 means for receiving an offer for at least one alternate travel product, wherein the at
4 least one alternate travel product has a greater value to a seller if sold than a preferred travel
5 product, the alternate travel product being based on the travel inquiry; and

6 means for transmitting an acceptance to purchase the at least one alternate travel
7 product.

1 42. A system for offering a travel product for sale, comprising:

2 means for receiving a travel inquiry indicative of a preferred travel product from a
3 traveler;

4 means for querying at least one merchant server to select a preferred and at least one
5 alternate travel product based on the travel inquiry;

6 means for receiving a preferred travel product record and at least one alternate travel
7 product record from a merchant server, the preferred travel product record and alternate
8 travel product records being indicative of travel products;

9 means for selecting at least one alternate travel product based on the at least one
10 received alternate travel product record, wherein the alternate travel product provides a
11 greater value to a seller if sold than the preferred travel product; and

12 means for transmitting an offer to sell the selected at least one alternate travel product
13 to the traveler.

1 43. Computer executable software code stored on a computer readable medium,
2 the code for offering a travel product for sale, comprising:

3 code for receiving a preferred travel product record and at least one alternate travel
4 product record from an inventory database, the preferred and alternate travel product records
5 being indicative of preferred and alternate travel products;

6 code for selecting at least one alternate travel product based on the at least one
7 received alternate travel product record, wherein the at least one alternate travel product
8 provides a greater value to a seller if sold than the preferred travel product; and

9 code for transmitting an offer to sell the selected at least one alternate travel product.

1 44. Computer executable software code stored on a computer readable medium,
2 the code for offering a travel product for sale, comprising:

3 code for receiving a travel inquiry indicative of a preferred travel product from a
4 traveler;

5 code for transmitting the travel inquiry to at least one merchant server;

6 code for receiving at least one alternate travel product record from a merchant server,
7 wherein the at least one alternate travel product record is based upon the travel inquiry, the
8 alternate travel product record being indicative of an alternate travel product;

9 code for selecting at least one alternate travel product based on the at least one
10 received alternate travel product record, wherein the at least one alternate travel product
11 provides a greater value to a seller if sold than the preferred travel product;

12 code for transmitting an offer to sell the selected at least one alternate travel product
13 to a traveler; and

14 code for receiving an acceptance to purchase the at least one alternate travel product
15 from the traveler.

1 45. Computer executable software code stored on a computer readable medium,
2 the code for purchasing a travel product, comprising:

3 code for submitting a travel inquiry that is indicative of a preferred travel product;

code for receiving an offer for at least one alternate travel product, wherein the at least one alternate travel product has a greater value to a seller if sold than a preferred travel product, the alternate travel product being based on the travel inquiry; and
code for transmitting an acceptance to purchase the at least one alternate travel product.

46. Computer executable software code stored on a computer readable medium, the code for offering a travel product for sale, comprising:
code for receiving a travel inquiry indicative of a preferred travel product from a traveler;
code for querying at least one merchant server to select a preferred and at least one alternate travel product based on the travel inquiry;
code for receiving a preferred travel product record and at least one alternate travel product record from a merchant server, the preferred travel product record and alternate travel product records being indicative of travel products;
code for selecting at least one alternate travel product based on the at least one received alternate travel product record, wherein the at least one alternate travel product provides a greater value to a seller if sold than the preferred travel product; and
code for transmitting an offer to sell the selected at least one alternate travel product to the traveler.

1 47. A computer readable medium having computer executable software code
2 stored thereon, the code for offering a travel product for sale, comprising:

3 code for receiving a preferred travel product record and at least one alternate travel
4 product record from an inventory database, the preferred and alternate travel product records
5 being indicative of preferred and alternate travel products;

6 code for selecting at least one alternate travel product based on the at least one
7 received alternate travel product record, wherein the at least one alternate travel product
8 provides a greater value to a seller if sold than the preferred travel product; and

9 code for transmitting an offer to sell the selected at least one alternate travel product.

1 48. A computer readable medium having computer executable software code
2 stored thereon, the code for offering a travel product for sale, comprising:

3 code for receiving a travel inquiry indicative of a preferred travel product from a
4 traveler;

5 code for transmitting the travel inquiry to at least one merchant server;

6 code for receiving at least one alternate travel product record from a merchant server,
7 wherein the at least one alternate travel product record is based upon the travel inquiry, the
8 alternate travel product record being indicative of an alternate travel product;

9 code for selecting at least one alternate travel product based on the at least one
10 received alternate travel product record, wherein the at least one alternate travel product
11 provides a greater value to a seller if sold than the preferred travel product;

12 code for transmitting an offer to sell the selected at least one alternate travel product
13 to a traveler; and
14 code for receiving an acceptance to purchase the at least one alternate travel product
15 from the traveler.

1 49. A computer readable medium having computer executable software code
2 stored thereon, the code for purchasing a travel product, comprising:
3 code for submitting a travel inquiry that is indicative of a preferred travel product;
4 code for receiving an offer for at least one alternate travel product, wherein the at
5 least one alternate travel product has a greater value to a seller if sold then a preferred travel
6 product, the alternate travel product being based on the travel inquiry; and
7 code for transmitting an acceptance to purchase the at least one alternate travel
8 product.

1 50. A computer readable medium having computer executable software code
2 stored thereon, the code for offering a travel product for sale, comprising:
3 code for receiving a travel inquiry indicative of a preferred travel product from a
4 traveler;
5 code for querying at least one merchant server to select a preferred and at least one
6 alternate travel product based on the travel inquiry;

7 code for receiving a preferred travel product record and at least one alternate travel
8 product record from a merchant server, the preferred travel product record and alternate
9 travel product records being indicative of travel products;
10 code for selecting at least one alternate travel product based on the at least one
11 received alternate travel product record, wherein the at least one alternate travel product
12 provides a greater value to a seller if sold than the preferred travel product; and
13 code for transmitting an offer to sell the selected at least one alternate travel product
14 to the traveler.

1 51. A programmed computer for offering a travel product for sale, comprising:
2 a memory having at least one region for storing computer executable code; and
3 a processor for executing the program code stored in memory, wherein the program
4 code includes:
5 code for receiving a preferred travel product record and at least one alternate travel
6 product record from an inventory database, the preferred and alternate travel product records
7 being indicative of preferred and alternate travel products;
8 code for selecting at least one alternate travel product based on the at least one
9 received alternate travel product record, wherein the at least one alternate travel product
10 provides a greater value to a seller if sold than the preferred travel product; and
11 code for transmitting an offer to sell the selected at least one alternate travel product.

1 52. The programmed computer of claim 51 wherein the program code further
2 includes code for receiving an acceptance to purchase the at least one alternate travel
3 product.

1 53. The programmed computer of claim 51 wherein selecting the at least one
2 alternate travel product having a greater value to the seller than the preferred travel product is
3 based upon inventory data associated with the alternate and preferred travel products.

1 54. The programmed computer of claim 51 wherein selecting the at least one
2 alternate travel product having a greater value to the seller than the preferred travel product is
3 based upon profit margin data associated with the preferred and alternate travel products.

1 55. The programmed computer of claim 52 wherein selecting the at least one
2 alternate travel product having a greater value to the seller than the preferred travel product is
3 based upon a current load factor associated with the alternate and preferred travel products.

1 56. The programmed computer of claim 53 wherein selecting the at least one
2 alternate travel product having a greater value to the seller than the preferred travel product is
3 based upon a projected load factor associated with the alternate and preferred travel products.

1 57. The programmed computer of claim 54 wherein selecting the at least one
2 alternate travel product having a greater value to the seller than the preferred travel product is
3 based upon a load factor discrepancy associated with the alternate and preferred travel
4 products.

1 58. The programmed computer of claim 55 wherein the program code further
2 includes code for selecting a benefit to be associated with the alternate travel product.

1 59. The programmed computer of claim 56 wherein the program code further
2 includes code for receiving a travel inquiry that is indicative of a preferred travel product.

1 60. The programmed computer of claim 57 wherein the at least one alternate
2 travel product is within a defined variation limit from the received travel inquiry.

1 61. A programmed computer for offering a travel product for sale, comprising:
2 a memory having at least one region for storing computer executable code; and
3 a processor for executing the program code stored in memory, wherein the program
4 code includes:

5 code for receiving a travel inquiry indicative of a preferred travel product from a
6 traveler;

7 code for transmitting the travel inquiry to at least one merchant server;

code for receiving at least one alternate travel product record from a merchant server, wherein the at least one alternate travel product record is based upon the travel inquiry, the alternate travel product record being indicative of an alternate travel product;

code for selecting at least one alternate travel product based on the at least one received alternate travel product record, wherein the at least one alternate travel product provides a greater value to a seller if sold than the preferred travel product;

code for transmitting an offer to sell the selected at least one alternate travel product to a traveler; and

code for receiving an acceptance to purchase the at least one alternate travel product from the traveler.

62. A programmed computer for offering a travel product for sale, comprising:
a memory having at least one region for storing computer executable code; and
a processor for executing the program code stored in memory, wherein the program code includes:

code for submitting a travel inquiry that is indicative of a preferred travel product;

code for receiving an offer for at least one alternate travel product, wherein the at least one alternate travel product has a greater value to a seller if sold than a preferred travel product, the alternate travel product being based on the travel inquiry; and

code for transmitting an acceptance to purchase the at least one alternate travel product.

1 63. A programmed computer for offering a travel product for sale, comprising:
2 a memory having at least one region for storing computer executable code; and
3 a processor for executing the program code stored in memory, wherein the program
4 code includes:

5 code for receiving a travel inquiry indicative of a preferred travel product from a
6 traveler;

7 code for querying at least one merchant server to select a preferred and at least one
8 alternate travel product based on the travel inquiry;

9 code for receiving a preferred travel product record and at least one alternate travel
10 product record from a merchant server, the preferred travel product record and alternate
11 travel product records being indicative of travel products;

12 code for selecting at least one alternate travel product based on the at least one
13 received alternate travel product record, wherein the at least one alternate travel product
14 provides a greater value to a seller if sold than the preferred travel product; and

15 code for transmitting an offer to sell the selected alternate travel product to the
16 traveler.

1 64. The programmed computer of claim 63 wherein the seller is a travel product
2 seller.

1 65. The programmed computer of claim 63 wherein the seller is a central
2 reservation system.

1 66. The programmed computer of claim 63 wherein the seller is a travel agent.

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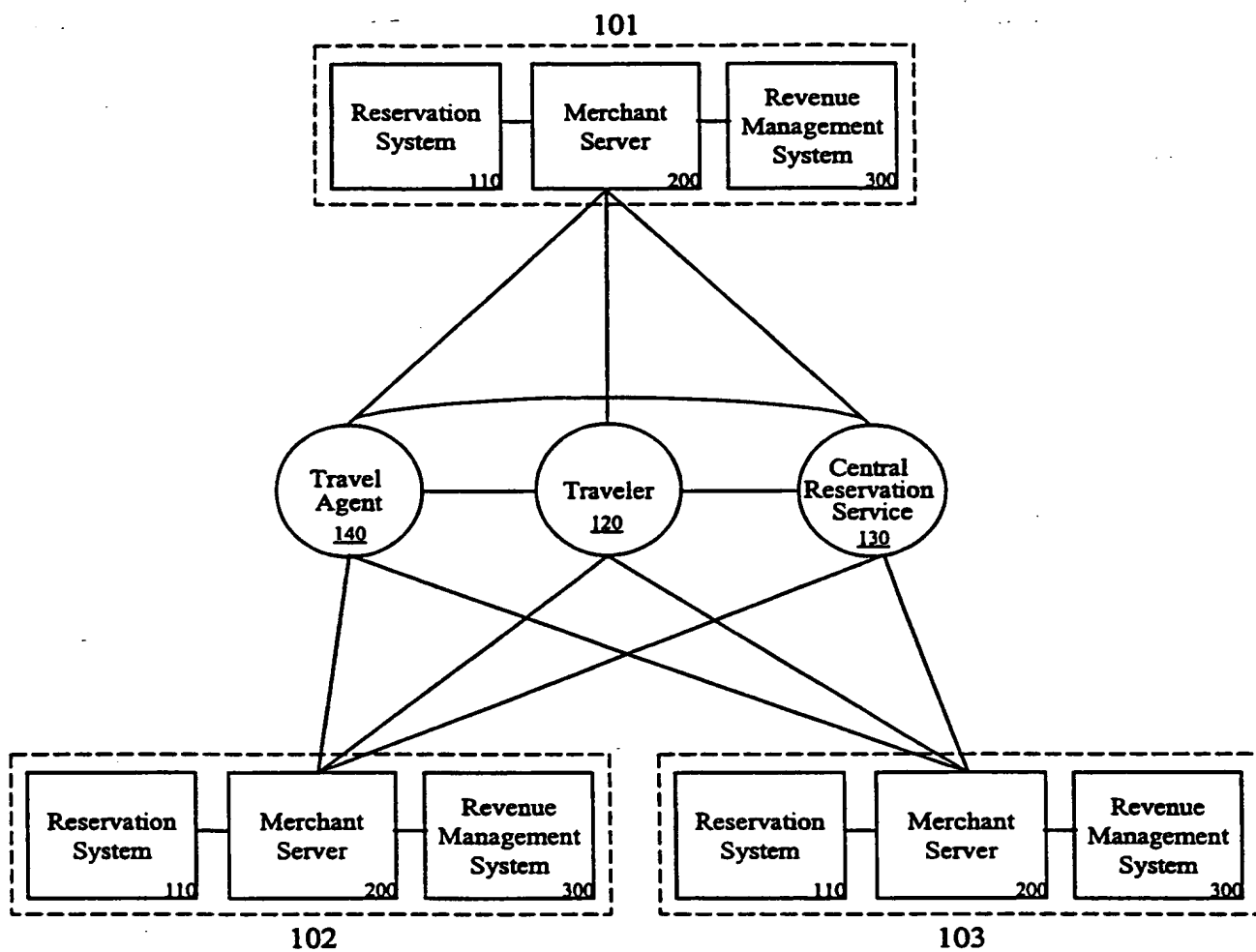


FIG. 1

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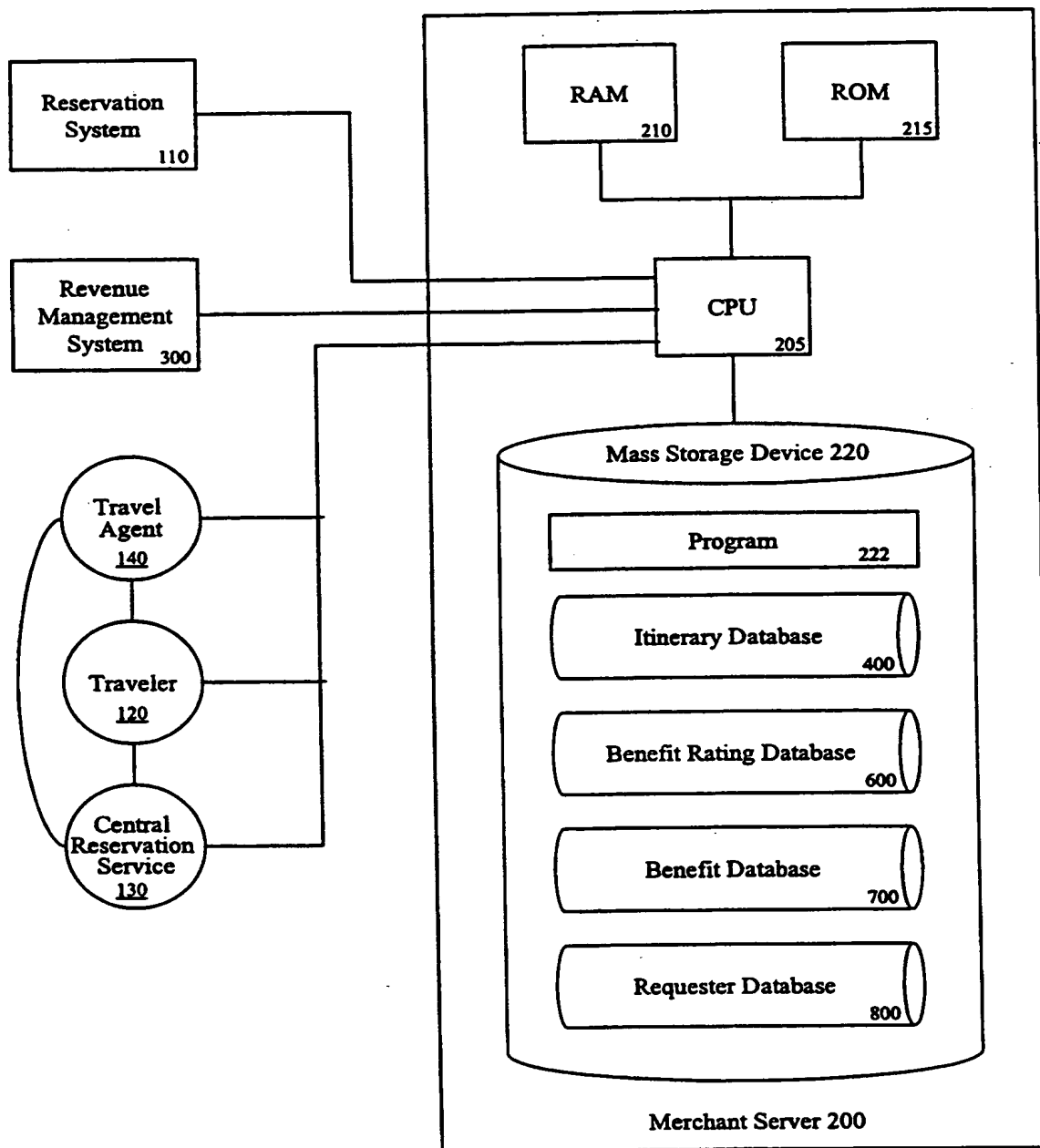


FIG. 2

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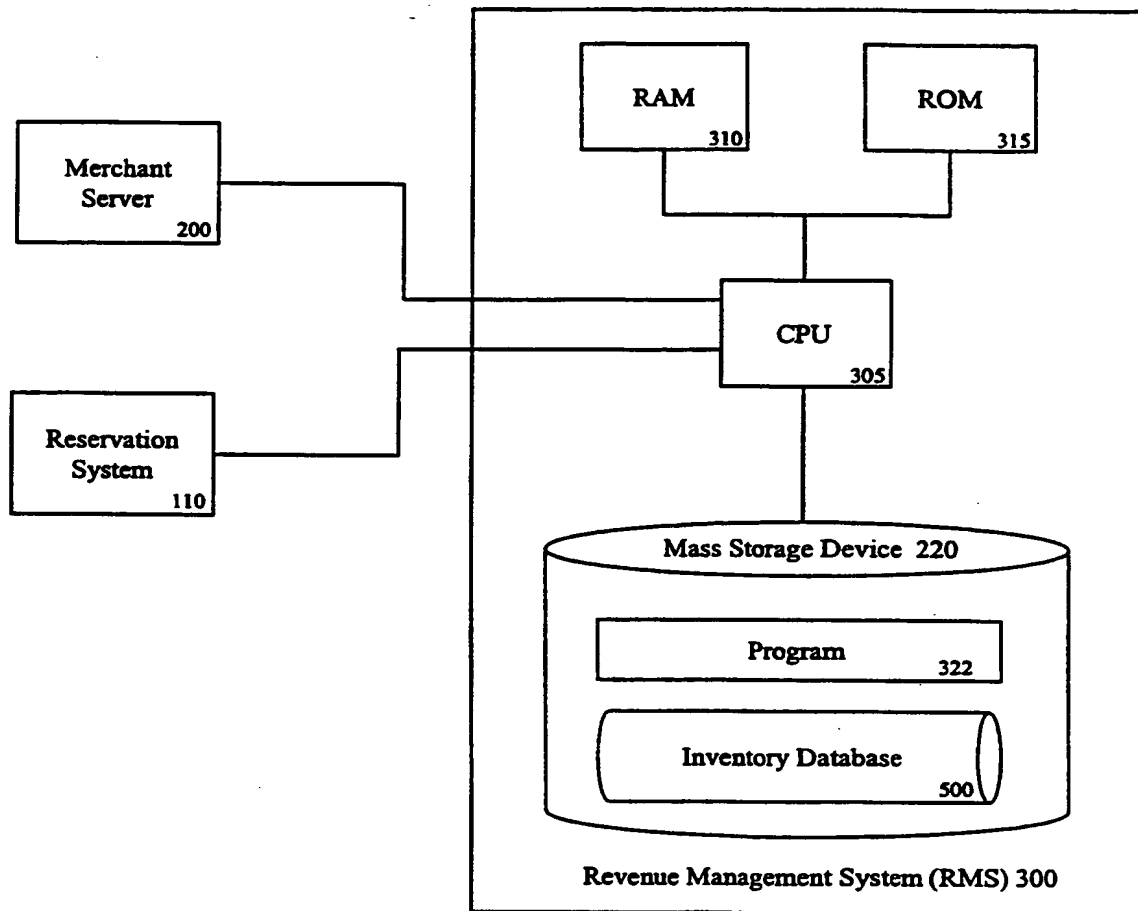


FIG. 3

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ITINERARY DATABASE 400

ITINERARY ID 410	REQUESTER ID 420	PREFERRED ITINERARY 430	ALTERNATE ITINERARY 440	BENEFIT RATING 450	BENEFIT 460	OFFER STATUS 470
99-001	000-0001	7/20/1999 #980 COACH	7/20/1999 #980 COACH	8	100 Frequent Flyer Miles	Accepted
		7/29/1999 #1640 COACH	7/29/1999 #862 COACH			
99-002	000-215	7/29/1999 #930 COACH	7/29/1999 #930 COACH	18	500 Frequent Flyer Miles	Rejected
		8/14/1999 #384 COACH	8/14/1999 #384 COACH			

401

402

FIG. 4

FLIGHT NUMBER	O AND D PAIR	DEPARTURE DATE	DEPARTURE/ ARRIVAL TIME	AVAILABILITY
1640	CLE/LGA	07/29/1999	1200/1320	14-FIRST
862	CLE/JFK	07/29/1999	1600/1740	36-COACH
1580	JFK/SFO	07/29/1999	1400/2015	20-FIRST
930	JFK/SFO	07/29/1999	730/1345	45-COACH
				17-FIRST
				31-COACH
				13-FIRST
				31-COACH

FIG. 5A

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CURRENT PRICE 540	PROFIT MARGIN 550	CURRENT LOAD FACTOR 555	OPTIMAL LOAD FACTOR 560	PROJECTED LOAD FACTOR 570	OPTIMAL LOAD FACTOR DISCREPANCY 575	LOAD FACTOR THRESHOLD 580
\$1190	\$500	55%	63%	70%	10%	25%
\$190	\$15	50%	70%	75%	-5%	25%
\$1220	\$600	45%	70%	65%	10%	25%
\$220	\$30	35%	65%	60%	5%	20%
\$1450	\$850	40%	80%	68%	32%	33%
\$450	\$25	24%	70%	47%	23%	22%
\$1500	\$750	56%	60%	70%	1%	30%
\$500	\$75	56%	75%	73%	-6%	27%

FIG. 5B

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BENEFIT RATING DATABASE 600

601	CONDITION/FEATURE 620	RATING 630
601	Airport < 20 Miles	4
602	20 < Airport > 50	8
603	50 < Airport	15
604	Travel Date 1 Day Different	4
605	Travel Date 3-4 Days Different	10
606	Travel Date More Than 4 Days Different	15
607	Travel Time 1 Hour Different	1
608	Travel Time 2-4 Hours Different	4
609	Travel Time 5-8 Hours Different	8
610	Travel Time More Than 9 Hours Different	10
611	Business to Coach	5
612	First Class to Business	7
613	First Class to Coach	10

FIG. 6

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BENEFIT DATABASE 700

	TOTAL BENEFIT RATING 710	BENEFIT 720
701	1-5	50 Frequent Flyer Miles
		\$20 Discount On Hotel Room
702	6-10	100 Frequent Flyer Miles
		\$40 Discount On Rental Car
703	11-15	200 Frequent Flyer Miles
		10% Discount On Next Ticket
704	16-20	500 Frequent Flyer Miles
		15% Discount On Next Ticket
705	21-25	1000 Frequent Flyer Miles
		20% Discount On Next Ticket
706	25-30	2000 Frequent Flyer Miles
		25% Discount On Next Ticket

FIG. 7

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REQUESTER DATABASE 800

REQUESTER ID 810	REQUESTER NAME 811	ADDRESS 812	PHONE 814	CREDIT CARD 816	PREFERRED BENEFIT 818	ACCEPTED BENEFITS 820
000-215	Dan Fey	12 Springlawn Rd, Briarcliff, NY, 11898	914-596-1349	3725-010102-XXX	Travel Discount	\$40 of Car Rental \$100 of Hotel
000-0001	Margaret Smith	131 Smith Street, Hawthorne, NY 11982	914-864-1123	4321-786453-XXX	Rebate	\$20 Rebate \$20 of Car Rental
000-324	Howard Jones	45 Cobalt Lane, Smithtown, NY 11787	631-857-5432	4567-112345-XXX	Frequent Flyer Miles	1000 Miles 500 Miles \$20 Rebate

FIG. 8

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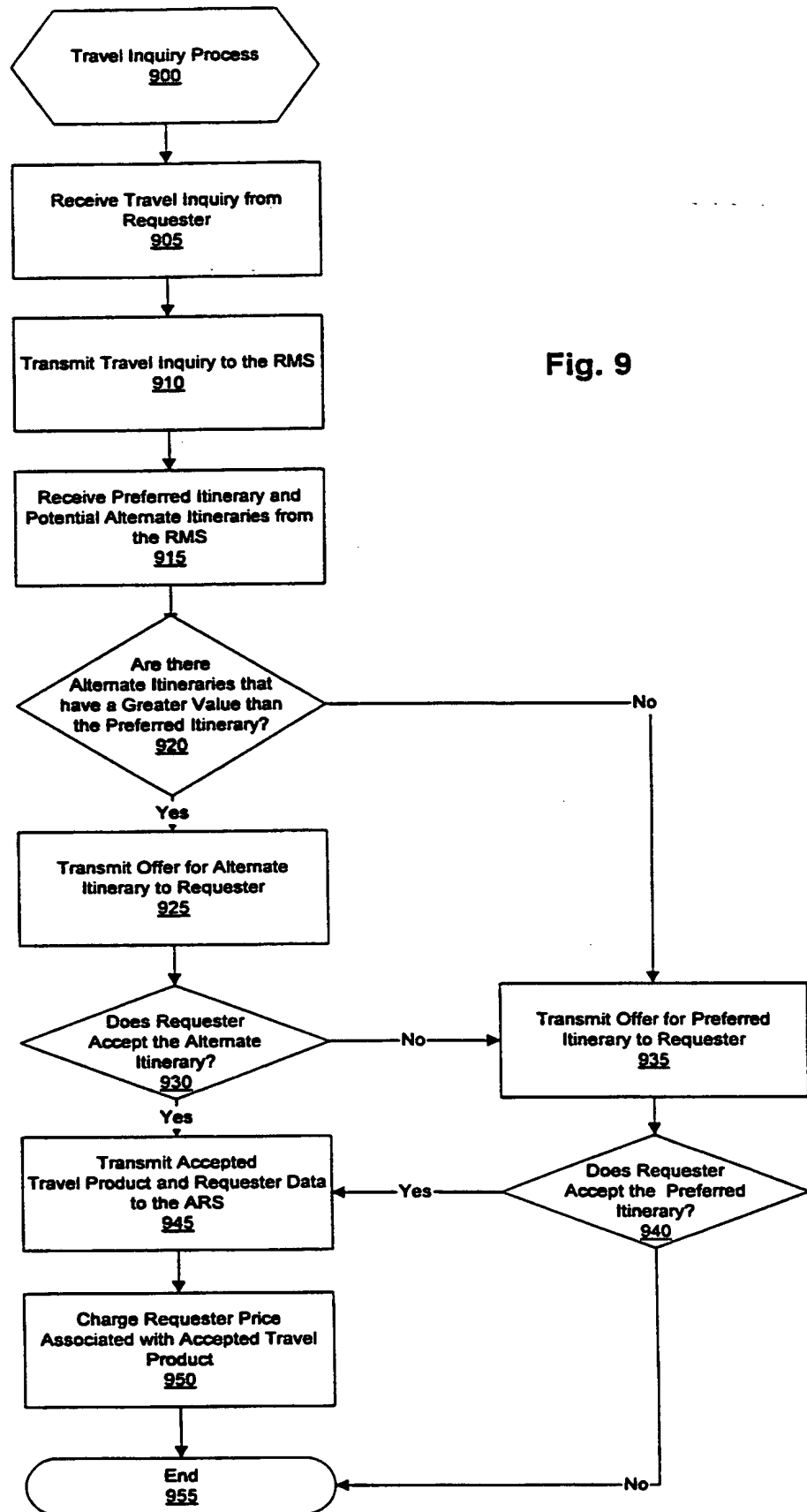


Fig. 9

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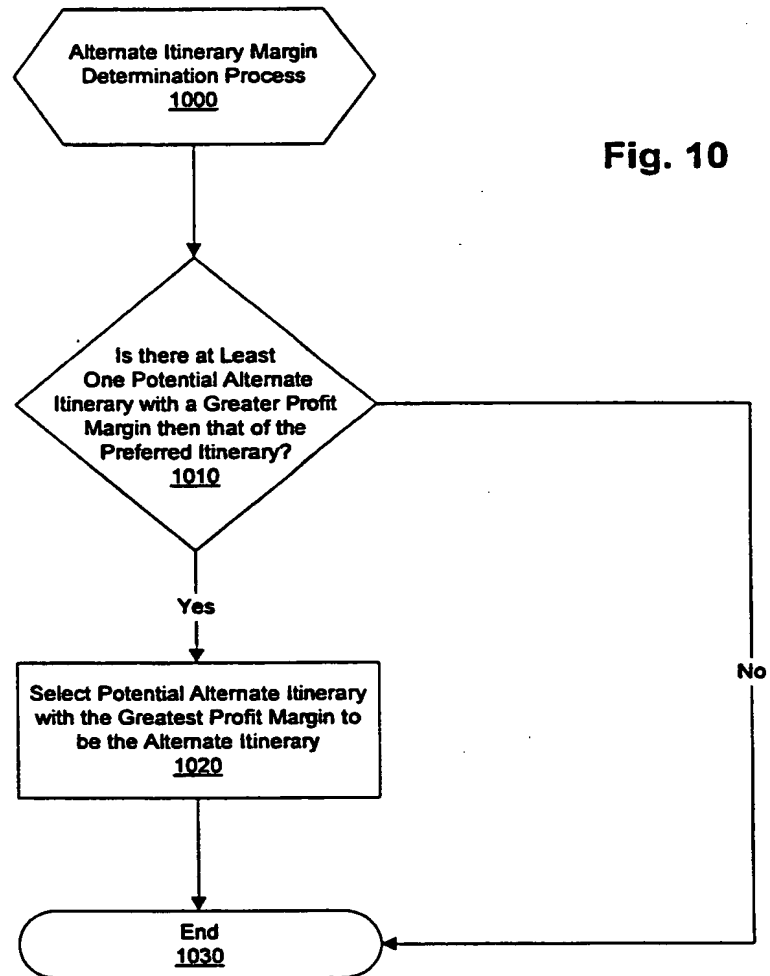


Fig. 10

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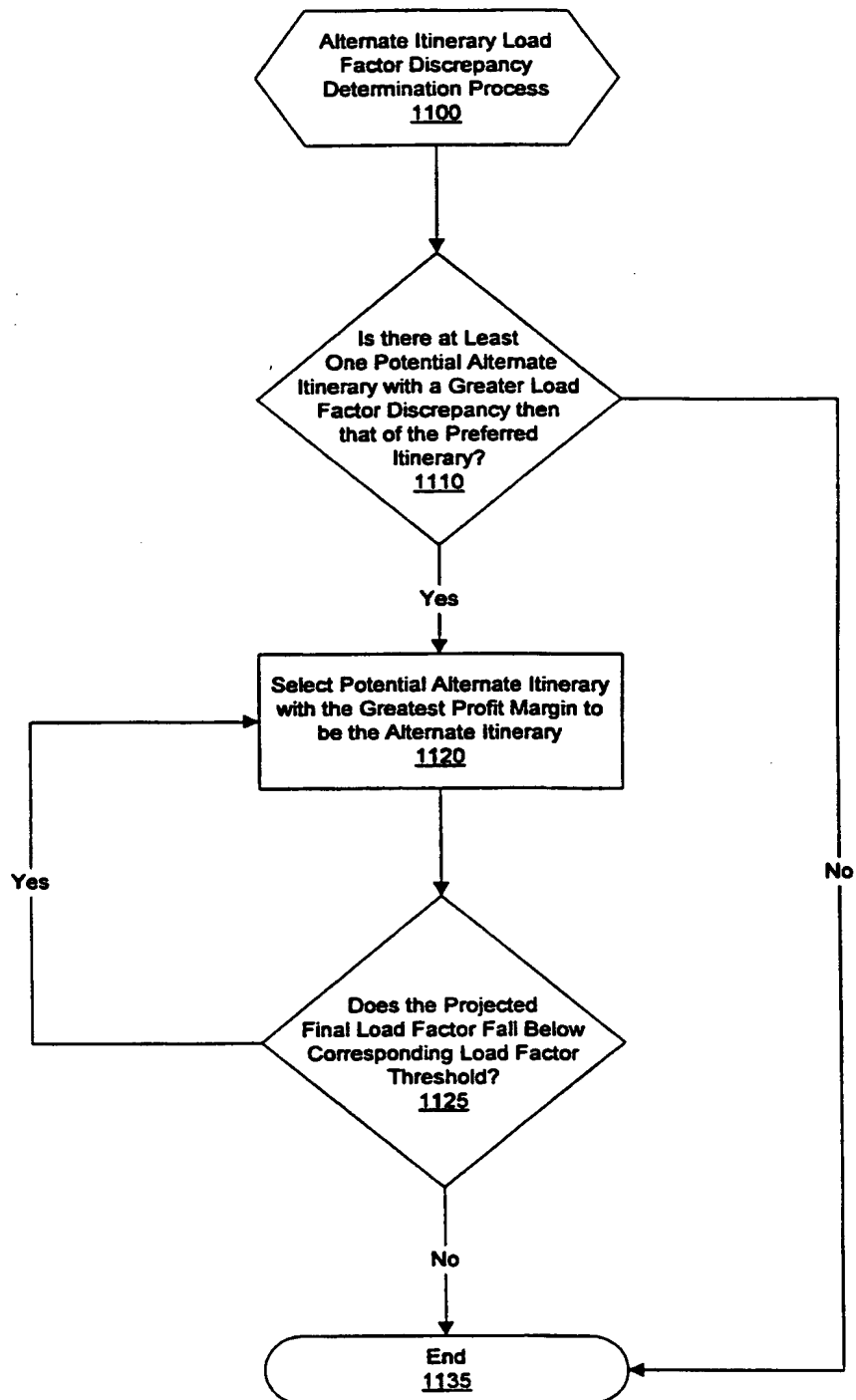
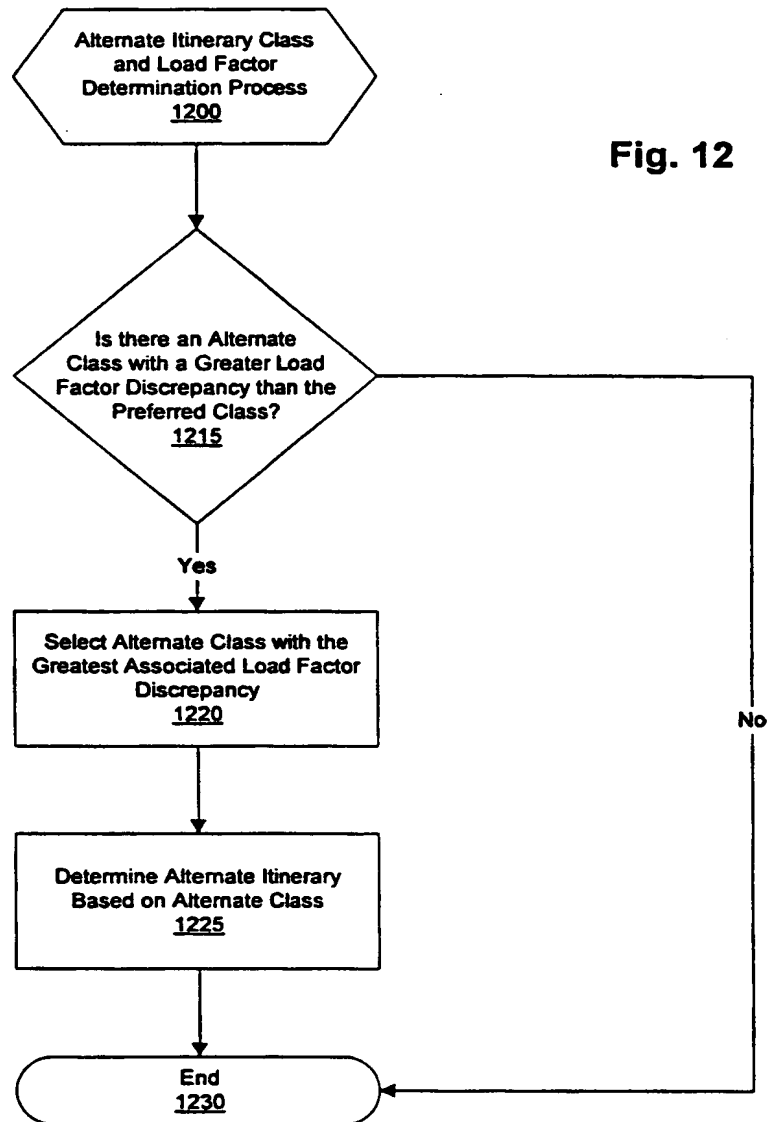


Fig. 11

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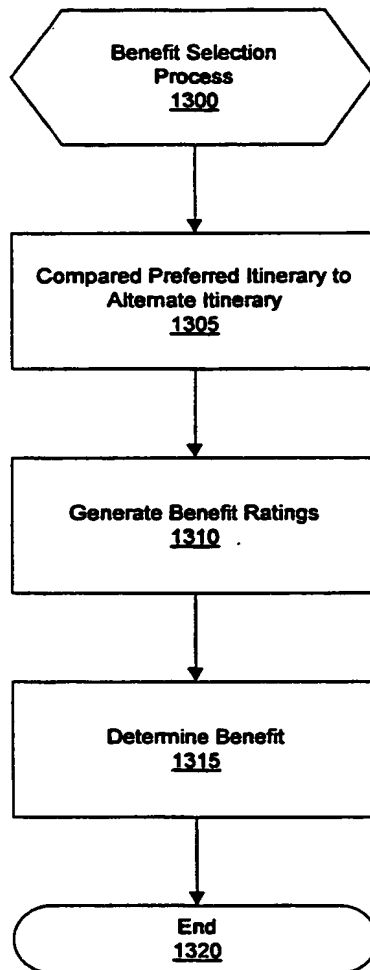


Fig. 13

INTERNATIONAL SEARCH REPORT

International application No.
US00/23912**A. CLASSIFICATION OF SUBJECT MATTER**IPC(7) : G06F 17/60
US CL : 705/5

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 705/5, 6, 22

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Extra Sheet.**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,775,936 A (JUNG) 04 October 1988	1-66
A	US 5,021,953 A (WEBBER et al.) 04 June 1991.	1-66
A	US 5,270,921 A (HORNICK) 14 December 1993.	1-66
A	JP 06075982 A (NOMURA et al.) 18 March 1994	1-66
A	US 5,652,867 A (BARLOW et al.) 29 July 1997.	1-66
A	US 5,897,620 A (WALKER et al.) 27 April 1999.	1-66
A	US 5,918,209 A (CAMPBELL et al.) 29 June 1999.	1-66
A	US 5,933,813 A (TEICHER et al.) 03 August 1999.	1-66

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
A document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
E earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*A* document member of the same patent family
O document referring to an oral disclosure, use, exhibition or other means	
P document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

24 NOVEMBER 2000

Date of mailing of the international search report

05 JAN 2001

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

VINCENT MILLIN

Telephone No. (703) 308-1065

James R. Matthews

INTERNATIONAL SEARCH REPORTInternational application No.
US00/23912**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A,P	US 6,085,164 A (SMITH et al.) 04 July 2000.	1-66

INTERNATIONAL SEARCH REPORT

International application No.

US00/23912

B. FIELDS SEARCHED

Electronic data bases consulted (Name of data base and where practicable terms used):

WEST keyword search of US patents, Japanese and European patent abstracts, Derwent patent abstracts, and IBM Technical Disclosure Bulletins. Search terms: ((altern\$ or prefer\$ or profit\$) NEAR7 (ticket or reservation)) and ((airplane or airline or air or train or cruise or ship or hotel or bus or (rental ADJ car)) NEAR7 (ticket or reservation)). DIALOG keyword search of files 2, 9, 15, 16, 20, 35, 65, 77, 99, 148, 160, 233, 256, 278, 275, 347, 348, 349, 473, 474, 475, 583, 621, 623, 624, 634, 636, 810, and 813. Search terms similar with additional limitation: alternat?(w)(ticket? ? or reservation? ?)

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

HANCHUK, Walter, G.
Morgan & Finnegan, L.L.P.
345 Park Avenue
New York, NY 10154
ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year) 01 November 2001 (01.11.01)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 3553-4079PC	
International application No. PCT/US00/23912	International filing date (day/month/year) 30 August 2000 (30.08.00)

1. The following indications appeared on record concerning:

☐ the applicant ☐ the inventor ☒ the agent ☐ the common representative

Name and Address ANDRES, John Priceline.com Incorporated 800 Connecticut Avenue Norwalk, CT 06854 United States of America	State of Nationality	State of Residence
	Telephone No. 203 705 3000	
	Facsimile No. 203 299 8915	
	Teleprinter No.	

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☒ the person ☐ the name ☐ the address ☐ the nationality ☐ the residence

Name and Address HANCHUK, Walter, G. Morgan & Finnegan, L.L.P. 345 Park Avenue New York, NY 10154 United States of America	State of Nationality	State of Residence
	Telephone No. 212 758-4800	
	Facsimile No.	
	Teleprinter No.	

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the designated Offices concerned
<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the elected Offices concerned
<input type="checkbox"/> the International Preliminary Examining Authority	<input checked="" type="checkbox"/> other: Former agent

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Beatriz LARGO Telephone No.: (41-22) 338.83.38
---	---

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year)

09 July 2001 (09.07.01)

International application No.

PCT/US00/23912

Applicant's or agent's file reference

3553-4079PC

International filing date (day/month/year)

30 August 2000 (30.08.00)

Priority date (day/month/year)

31 August 1999 (31.08.99)

Applicant

WALKER, Jay, S. et al

1. The designated Office is hereby notified of its election made:



in the demand filed with the International Preliminary Examining Authority on:

26 February 2001 (26.02.01)



in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

Odile ALIU

Telephone No.: (41-22) 338.83.38

10/070073

Docket No. 3553-4079

☐ RECEIVING OFFICE (RO/US)
IN THE UNITED STATES

☒ DESIGNATED OFFICE (DO/US)
☒ ELECTED OFFICE (EO/US)

J Rec'd PCT/PTO 28 FEB 2002

INTERNATIONAL APPLICATION NO. PCT/US00/23912	INTERNATIONAL FILING DATE 30 August 00 (30.08.00)	EARLIEST PRIORITY DATE CLAIMED 31 August 99 (31.08.99)
TITLE OF INVENTION SYSTEM AND METHOD FOR FACILITATING THE SALE OF A TRAVEL PRODUCT		
APPLICANT(S) FOR DO/EO/US Jay S. WALKER, Maximillian O. URBAHN, Daniel E. TEDESCO, and Keith BEMER		

Commissioner for Patents
Box PCT
Washington, D.C. 20231

Attention: DO/EO/US

VERIFIED CERTIFICATION OF EXPRESS MAILING DATE
(INTERNATIONAL APPLICATION (37 CFR 1.10(c)))

I declare that on February 28, 2002, I deposited with the United States Postal Service in an envelope "Express Mail, Post Office to Addressee", bearing Label Number EV 062742113US to the "Commissioner for Patents, BOX PCT, Washington, D.C. 20231, Attention: DO/EO/US" and having an express mail certification which I executed, the following papers:

1. Transmittal Letter To The United States Designated/Elected Office (DO/EO/US) Concerning A Filing Under 35 U.S.C. 371, in duplicate;
2. Copy of published PCT/US00/23912, International Publication Number WO 01/16844;
3. Copy of Notification of the Recording of a Change; and
4. Copy of Notification of Transmittal of International Preliminary Examination Report with Preliminary Examination Report; and
5. Return receipt postcard.

A copy of these papers from the file of this application is attached.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application of any patent issuing thereon.

Date February 28, 2002


Erica D. Mitchell

(Verified Certification of Express Mailing Date (International Application) [13-12])

TENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: CAROLYN H. BLANKENSHIP
PRICELINE.COM INCORPORATED
800 CONNECTICUT AVENUE
NORWALK, CT 06854

PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of Mailing (day/month/year) 03 OCT 2001	
Applicant's or agent's file reference 3553-4079PC	IMPORTANT NOTIFICATION
International application No. PCT/US00/23912	International filing date (day/month/year) 30 AUGUST 2000
Priority Date (day/month/year) 31 AUGUST 1999	
Applicant PRICELINE.COM INCORPORATED	

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231	Authorized officer NICHOLAS ROSEN <i>James R. Matthews</i>
Facsimile No. (703) 305-3230	Telephone No. (703) 305-0753

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

14

Applicant's or agent's file reference 3553-4079PC	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US00/23912	International filing date (day/month/year) 30 AUGUST 2000	Priority date (day/month/year) 31 AUGUST 1999
International Patent Classification (IPC) or national classification and IPC IPC(7): G06F 17/60 and US Cl.: 705/5		
Applicant PRICELINE.COM INCORPORATED		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>7</u> sheets.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of <u>0</u> sheets.</p>
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of report with regard to novelty, inventive step or industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>

Date of submission of the demand 26 FEBRUARY 2001	Date of completion of this report 24 AUGUST 2001
Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231	Authorized officer NICHOLAS ROSEN <i>James R. Matthews</i>
Facsimile No. (703) 305-3230	Telephone No. (703) 305-0753

I. Basis of the report**1. With regard to the elements of the international application:***☒ the international application as originally filed☒ the description:

pages 1-35 , as originally filed
pages NONE , filed with the demand
pages NONE , filed with the letter of _____

☒ the claims:

pages 36-56 , as originally filed
pages NONE , as amended (together with any statement) under Article 19
pages NONE , filed with the demand
pages NONE , filed with the letter of _____

☒ the drawings:

pages 1-14 , as originally filed
pages NONE , filed with the demand
pages NONE , filed with the letter of _____

☒ the sequence listing part of the

description: NONE , as originally filed
pages NONE , filed with the demand
pages NONE , filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
☐ the language of publication of the international application (under Rule 48.3(b)).
☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international

- ☐ contained in the international application in printed form.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority in written form.
☐ furnished subsequently to this Authority in computer readable form.
☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

☒ the description, pages NONE
☒ the claims, Nos. NONE
☒ the drawings, sheets-fig NONE

5. ☐ The report has been drawn as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

*** Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).**

****Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.**

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/23912

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. statement**

Novelty (N)	Claims	<u>1-66</u>	YES
	Claims	<u>NONE</u>	NO
Inventive Step (IS)	Claims	<u>1-66</u>	YES
	Claims	<u>NONE</u>	NO
Industrial Applicability (IA)	Claims	<u>1-66</u>	YES
	Claims	<u>NONE</u>	NO

2. citations and explanations (Rule 70.7)

Claims 1-28 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a computer-implemented method for offering a travel product for sale, comprising: receiving a preferred travel product record and at least one alternate travel product record from an inventory database, the preferred and alternate travel product records being indicative of preferred and alternate travel products; selecting at least one alternate travel product based on the at least one received alternate travel product record, wherein the at least one received alternate travel product provides a greater value to a seller if sold than the preferred travel product; and transmitting an offer to sell the selected at least one alternate travel product. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique has been systematized and computerized in accordance with the limitations recited in claim 1.

Claims 29-31 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a computer-implemented method for offering a travel product for sale, comprising: receiving a travel inquiry indicative of a preferred travel product from a traveler; transmitting the travel inquiry to at least one merchant server; receiving at least one alternate travel product record from a merchant server, wherein the at least one alternate travel product record is based upon the travel inquiry, the alternate travel product record being indicative of an alternate travel product; selecting at least one alternate travel product based on the at least one received alternate travel product record, wherein the at least one received alternate travel product provides a greater value to a seller if sold than the preferred travel product; transmitting an offer to sell the selected at least one alternate travel product to a traveler; and receiving an acceptance to purchase the at least one alternate travel product from the traveler. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique (Continued on Supplemental Sheet.)

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

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V. 2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS (Continued):

has been systematized and computerized in accordance with the limitations recited in claim 29.

Claims 32-34 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a computer-implemented method for purchasing a travel product, comprising: submitting a travel inquiry that is indicative of a preferred travel product; receiving an offer for at least one alternate travel product, wherein the at least one alternate travel product has a greater value to a seller if sold than a preferred travel product, the at least one alternate travel product being based on the travel inquiry; and transmitting an acceptance to purchase the at least one alternate travel product. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique has been systematized and computerized in accordance with the limitations recited in claim 32.

Claims 35-38 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a computer-implemented method for offering a travel product for sale, comprising: receiving a travel inquiry indicative of a preferred travel product from a traveler; querying at least one merchant server to select a preferred and an alternate travel product based on the travel inquiry; receiving a preferred travel product record and at least one alternate travel product record from a merchant server, the preferred travel product record and alternate travel product records being indicative of travel products; selecting at least one alternate travel product based on the at least one received alternate travel product record, wherein the at least one received alternate travel product provides a greater value to a seller if sold than the preferred travel product; and transmitting an offer to sell the selected at least one alternate travel product to a traveler. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique has been systematized and computerized in accordance with the limitations recited in claim 35.

Claim 39 meets the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a system for offering a travel product for sale, comprising: means for receiving a preferred travel product record and at least one alternate travel product record from an inventory database, the preferred and alternate travel product records being indicative of preferred and alternate travel products; means for selecting at least one alternate travel product based on the at least one received alternate travel product record, wherein the at least one received alternate travel product provides a greater value to a seller if sold than the preferred travel product; and means for transmitting an offer to sell the selected at least one alternate travel product. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique has been systematized in accordance with the limitations recited in claim 39.

Claim 40 meets the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a system for offering a travel product for sale, comprising: means for receiving a travel inquiry indicative of a preferred travel product from a traveler; means for transmitting the travel inquiry to at least one merchant server; means for receiving at least one alternate travel product record from a merchant server, wherein the at least one alternate travel product record is based upon the travel inquiry, the alternate travel product record being indicative of an alternate travel product; means for selecting at least one alternate travel product based on the at least one received alternate travel product record, wherein the at least one received alternate travel product provides a greater value to a seller if sold than the preferred travel product; means for transmitting an offer to sell the selected at least one alternate travel product to a traveler; and means for receiving an acceptance to purchase the at least one alternate travel product from the traveler. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art fails to teach that this business technique has been systematized in accordance with the limitations recited in claim 40.

Claim 41 meets the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a system for purchasing a travel product, comprising: means for submitting a travel inquiry that is indicative of a preferred travel product; means for receiving an offer for at least one alternate travel product, wherein the at least one alternate travel product has a greater value to a seller if sold than a preferred travel product, the alternate travel product being based on the travel inquiry; and means for transmitting an acceptance to purchase the at least one alternate travel product. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique has been systematized in accordance with the limitations recited in claim 41.

Claim 42 meets the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a system for offering a travel product for sale, comprising: means for receiving a travel inquiry indicative of a preferred travel product from a traveler; means for querying at least one merchant server to select a preferred and at least one alternate travel product based on the travel inquiry; means for receiving a preferred travel product record and at least one alternate travel product

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

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record from a merchant server, the preferred travel product record and alternate travel product records being indicative of travel products; means for selecting at least one alternate travel product based on the at least one received alternate travel product record, wherein the alternate travel product provides a greater value to the seller if sold than the preferred travel product record; and means for transmitting an offer to sell the selected at least one alternate travel product to the traveler. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique has been systematized in accordance with the limitations recited in claim 42.

Claim 43 meets the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest computer executable software code stored on a computer readable medium, the code for offering a travel product for sale, comprising: code for receiving a preferred travel product record and at least one alternate travel product record from an inventory database, the preferred and alternate travel product records being indicative of preferred and alternate travel products; code for selecting at least one alternate travel product based on the at least one received alternate travel product record, wherein the at least one alternate travel product provides a greater value to a seller if sold than the preferred travel product; and code for transmitting an offer to sell the selected at least one alternate travel product. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique has been systematized and computerized in accordance with the limitations recited in claim 43.

Claim 44 meets the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest computer executable software code stored on a computer readable medium, the code for offering a travel product for sale, comprising: code for receiving a travel inquiry indicative of a preferred travel product from a traveler; code for transmitting the travel inquiry to at least one merchant server; code for receiving at least one alternate travel product record from a merchant server, wherein the at least one alternate travel product is based upon the travel inquiry, the alternate travel product record being indicative of an alternate travel product; code for selecting at least one alternate travel product based on the at least one received alternate travel product record, wherein the at least one alternate travel product record provides a greater value to a seller if sold than the preferred travel product; code for transmitting an offer to sell the selected at least one alternate travel product to a traveler; and code for receiving an acceptance to purchase the at least one alternate travel product from the traveler. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique has been systematized and computerized in accordance with the limitations recited in claim 44.

Claim 45 meets the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest computer executable software code stored on a computer readable medium, the code for purchasing a travel product, comprising: code for submitting a travel inquiry that is indicative of a preferred travel product; code for receiving an offer for at least one alternate travel product, wherein the at least one alternate travel product has a greater value to a seller if sold than a preferred travel product, the alternate travel product being based on the travel inquiry; and code for transmitting an acceptance to purchase the at least one alternate travel product. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique has been systematized and computerized in accordance with the limitations recited in claim 45.

Claim 46 meets the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest computer executable code stored on a computer readable medium, the code for offering a travel product for sale, comprising: code for receiving a travel inquiry indicative of a preferred travel product from a traveler; code for querying at least one merchant server to select a preferred and at least one alternate travel product based on the travel inquiry; code for receiving a preferred travel product record and at least one alternate travel product record from a merchant server, the preferred travel product record and alternate travel product records being indicative of travel products; code for selecting at least one alternate travel product based on the at least one received alternate travel product record, wherein the at least one alternate travel product provides a greater value to a seller if sold than the preferred travel product; and code for transmitting an offer to sell the selected at least one alternate travel product to the traveler. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique has been systematized and computerized in accordance with the limitations recited in claim 46.

Claim 47 meets the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a computer readable medium having computer executable software code stored thereon, the code for offering a travel product for sale, comprising: code for receiving a preferred travel product record and at least one alternate travel product record from an inventory database, the preferred and alternate travel product records being indicative of preferred and alternate travel products; code for selecting at least one alternate travel product based on the at least one received alternate travel product record, wherein the at least one alternate travel product provides a greater value to a seller if sold than the preferred travel

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

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product; and code for transmitting an offer to sell the selected at least one alternate travel product. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique has been systematized and computerized in accordance with the limitations recited in claim 47.

Claim 48 meets the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a computer readable medium having computer executable software code stored thereon, the code for offering a travel product for sale, comprising: code for receiving a travel inquiry indicative of preferred travel product from a traveler; code for transmitting the travel inquiry to at least one merchant server; code for receiving at least one alternate travel product record from a merchant server, wherein the at least one alternate travel product record is based upon the travel inquiry, the alternate travel product record being indicative of an alternate travel product; code for selecting at least one alternate travel product based on the at least one received alternate travel product record, wherein the at least one alternate travel product provides a greater value to a seller if sold than the preferred travel product; code for transmitting an offer to sell the selected at least one alternate travel product to a traveler; and code for receiving an acceptance to purchase the at least one alternate travel product from the traveler. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique has been systematized and computerized in accordance with the limitations of claim 48.

Claim 49 meets the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a computer readable medium having computer executable software code stored thereon, the code for purchasing a travel product, comprising: code for submitting a travel inquiry that is indicative of a preferred travel product; code for receiving an offer for at least one alternate travel product, wherein the at least one alternate travel product has a greater value to a seller if sold than a preferred travel product, the alternate travel product being based on the travel inquiry; and code for transmitting an acceptance to purchase the at least one alternate travel product. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique has been systematized and computerized in accordance with the limitations of claim 49.

Claim 50 meets the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a computer readable medium having computer executable code stored thereon, the code for offering a travel product for sale, comprising: code for receiving a travel inquiry indicative of a preferred travel product from a traveler; code for querying at least one merchant server to select a preferred and at least one alternate travel product based on the travel inquiry; code for receiving a preferred travel product record and at least one alternate travel product record from a merchant server, the preferred travel product record and alternate travel product records being indicative of travel products; code for selecting at least one alternate travel product based on the at least one received alternate travel product record, wherein the at least one alternate travel product provides a greater value to a seller if sold than the preferred travel product; and code for transmitting an offer to sell the selected at least one alternate travel product to the traveler. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique has been systematized and computerized in accordance with the limitations recited in claim 50.

Claims 51-60 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a programmed computer for offering a travel product for sale, comprising: a memory having at least one region for storing computer executable code; and a processor for executing the program code stored in memory, wherein the program code includes: code for receiving a preferred travel product record and at least one alternate travel product record from an inventory database, the preferred and alternate travel product records being indicative of preferred and alternate travel products; code for selecting at least one alternate travel product based on the at least one received alternate travel product record, wherein the at least one alternate travel product provides a greater value to a seller if sold than the preferred travel product; and code for transmitting an offer to sell the selected at least one alternate travel product. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique has been systematized and computerized in accordance with the limitations recited in claim 51.

Claim 61 meets the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a programmed computer for offering a travel product for sale, comprising: a memory having at least one region for storing computer executable code; and processor for executing the program code stored in memory, wherein the program code includes: code for receiving travel inquiry indicative of a preferred travel product from a traveler; code for transmitting the travel inquiry to at least one merchant server; code for receiving at least one alternate travel product record from a merchant server, wherein the at least one alternate travel product record is based upon the travel inquiry, the alternate travel product record being indicative of an alternate travel product; code for selecting at least one alternate travel product based on the at least one received alternate travel product record, wherein the at least one alternate travel product provides a greater value to a

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

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seller if sold than the preferred travel product; code for transmitting an offer to sell the selected at least one alternate travel product to a traveler; and code for receiving an acceptance to purchase the at least one alternate travel product from the traveler. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique has been systematized and computerized in accordance with the limitations recited in claim 61.

Claim 62 meets the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a programmed computer for offering a travel product for sale, comprising: a memory having at least one region for storing computer executable code; and processor for executing the program code stored in memory, wherein the program code includes: code for submitting a travel inquiry that is indicative of a preferred travel product; code for receiving an offer for at least one alternate travel product, wherein the at least one alternate travel product has a greater value to a seller if sold than a preferred travel product, the alternate travel product being based on the travel inquiry; and code for transmitting an acceptance to purchase the at least one alternate travel product. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique has been systematized and computerized in accordance with the limitations of claim 62.

Claims 63-66 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a programmed computer for offering a travel product for sale, comprising: a memory having at least one region for storing computer executable code; and processor for executing the program code stored in memory, wherein the program code includes: code for receiving a travel inquiry indicative of a preferred travel product from a traveler; code for querying at least one merchant server to select a preferred and at least one alternate travel product based on the travel inquiry; code for receiving a preferred travel product record and at least one alternate travel product record from a merchant server, the preferred travel product record and alternate travel product records being indicative of travel products; code for selecting at least one alternate travel product based on the at least one received alternate travel product record, wherein the at least one alternate travel product provides a greater value to a seller if sold than the preferred travel product; and code for transmitting an offer to sell the selected at least one alternate travel product to the traveler. It is surely known for sellers to attempt to persuade customers to buy products that will be more profitable to the sellers, but the prior art of record fails to teach that this business technique has been systematized and computerized in accordance with the limitations recited in claim 63.

----- NEW CITATIONS -----

NONE